

ANNE MACE
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no. 2681

Itineraries of Routes and Tables of Distances,

WITH A

List of Posts, their Location, Garrisons, and Commanding Officers; Posts which have been Occupied, with Dates of Establishment and Abandonment; Forage Agencies; Distances to Indian Agencies and Names of Agents, in the

Department of the Columbia,

BREVET BRIG.-GEN. FRANK WHEATON,

Colonel, 2d Infantry, Commanding.

PREPARED BY

FIRST LIEUT. THOMAS W. SYMONS, CORPS OF ENGINEERS,

Chief Engineer, Department of the Columbia.



HEADQUARTERS DEPARTMENT OF THE COLUMBIA,
VANCOUVER BARRACKS, W. T., MAY 1, 1881.



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Thomas W. Symons,

Corps of Engineers,
U. S. Army.



NOTE.

Many of the distances given in these tables are from actual odometer measurements; some are from the official distances of the Post Office Department, and others are estimated and derived from the commonly accepted distances of the people traversing the routes. They have all been compiled from the most authentic information attainable, and are published for the information and assistance of the officers of this command.

Officers traveling the routes given are invited to co-operate in the correction of errors, and the collection of additional information.

Blank pages are left in this pamphlet, in order that officers may add from time to time such itineraries and routes as they may become aware of. These they are requested to forward to these Headquarters, in order that they may be published for the benefit of all.

The tables give in the first column the distances between the consecutive points named; in the second column is given the total distance from the first-named point, and in the third column is given the total distance from the last-named point.

I have made free use of the tables prepared by Lieutenant J. A. Sladen, 14th Infantry, Aide-de-Camp to General Howard, and of the materials and information concerning distances gathered by him.

The distances from Indian Agencies to nearest towns and cities are from Lieutenant Sladen's tables, with such modifications as were found necessary by later determinations.

The Department of the Columbia embraces the State of Oregon and the Territory of Washington, and all that part of the Territory of Idaho which lies to the west of the northward extension of the boundary line between Utah and Nevada.

The Headquarters of the Department are at Vancouver Barracks, W. T., 18 miles by water from Portland, Oregon, which is the commercial center of the Department, and the point from which the various posts in the Department are supplied.

Its present commander is Brevet Brigadier-General Frank Wheaton, Colonel, 2d Infantry.

The following are the Posts in the Department now Occupied by Troops; their Positions, Garrisons, and Commanding Officers.

(May 1st, 1881.)

NAME.	LATITUDE.	LONGITUDE WEST FROM WASHINGTON.	Altitude above Sea.—Feet.	GARRISON.	COMMANDING OFFICER.
Boise Barracks	43° 47'	38° 57'	2812	Companies F, 1st Cavalry, and A, 21st Inf.	Major G. G. Hunt, 1st Cavalry.
Fort Canby	46° 16' 33"	47° 02' 13"		" G and M, 4th Artillery.	Major W. M. Graham, 4th Art.
Camp Spokane	47° 51'	41° 19' 24"	1615	" D, E, F, and K, 2d Infantry.	Major Leslie Smith, 2d Infantry.
Fort Cœur d'Alene . . .	47° 38' 45"	39° 43' 22"	2311	" A, B, G, and I,	Captain William Mills, 2d Infantry.
Fort Colville	48° 36' 20"	40° 45'	2800	Co's. H, 1st Cavalry, and C and H, 2d Inf.	Lt.-Col. H. C. Merriam, 2d Inf.
Camp Howard	46° 5'	39° 5'	4100	Detachment of Company E, 1st Cavalry.	Lieut. S. C. Robertson, 1st Cav.
Fort Klamath	42° 39' 4"	44° 40'	4200	Companies L, 1st Cavalry, and C, 21st Inf.	Captain S. G. Whipple, 1st Cav.
Fort Lapwai	46° 26'	39° 43' 21"	900	" I, 21st Infantry, and F, 1st Cav.	Captain W. F. Spurgin, 21st Inf.
Fort Stevens	46° 31'	47° 58'	61/2	Company H, 21st Infantry.	Lieut. F. E. Eltonhead, 21st Inf.
Fort Townsend	48° 7' 3"	45° 41' 20"	135	Companies D and B, 21st Infantry.	Captain R. Pollock, 21st Infantry.
Vancouver Barracks	45° 40'	48° 27'	50	" E, F, G, and K, 21st Infantry.	Lt.-Col. A. Chambers, 21st Inf.
Vancouver Arsenal . . .	45° 40'	48° 27'	50	Detachment of Ordnance.	Captain J. A. Kress, Ord. Dept.
Fort Walla Walla	46° 3' 55" .89	41° 17' 48" .34	1033.5	Companies A, B, D, K, and M, 1st Cavalry.	Colonel C. Grover, 1st Cavalry.

Military Posts, Camps, Barracks, etc., in the Department of the Columbia.

NAMES.	ESTABLISHED.	ABANDONED.	REMARKS.
Fort Bellingham, W. T. CANBY.....	Aug. 26, 1856. April 5, 1864.	April 28, 1860.	Formerly called Fort Cape Disappointment; name changed January 28, 1875.
Cascades	Sept. 30, 1855.	Nov. 6, 1861.	
Chehalis	Feb. 11, 1860.	July 19, 1860.	
CŒUR D'ALENE.....	April 16, 1878.	.....
COLVILLE	June 20, 1859.	.....
Dalles.....	May 21, 1850.	.....
Hoskins, Oregon.....	July 26, 1856.	April 10, 1865.	
Kodiak, Alaska.....	June 6, 1868.	Sept. 18, 1870.	
Kenay, Alaska.....	April 17, 1869.	Oct., 1870.	
KLAMATH, OREGON.....	Sept. 5, 1863.	.....
Lane.....	Sept. 28, 1853.	Sept. 17, 1856.	
LAPWAI.....	Aug. 6, 1862.	.....
Logan	Dec. 1866.	Jan., 1869.	
Orford.....	Sept. 14, 1851.	July 10, 1856.	
Sitka, Alaska.....	(Oct. 29, 1867.	July 14, 1877.	
Simcoe.....	Aug. 8, 1856.	May 22, 1859.	
STEVENS.....	1864.	.....
Steilacoom	Aug. 28, 1859.	April 22, 1868.	
Taylor.....	Aug. 11, 1858.	Oct. 2, 1858.	
Tongas, Alaska.....	April 29, 1868.	Oct. 7, 1870.	
TOWNSEND	Oct. 26, 1856.	.....
Umpqua.....	July 28, 1856.	July 16, 1862.	
WALLA WALLA.....	Sept. 23, 1856.	.....
Wrangle, Alaska.....	May 5, 1868.	Sept. 27, 1870.	
Warner.....	July 15, 1866.	Sept. 1, 1867.	
Wright.....	Dec. 1866.	January, 1869.	
Yamhill, Oregon.....	Aug. 30, 1856.	June 30, 1866.	
Camp Alvord.....	.....	.....	Occupied in 1865.
Chelan.....	Sept. 2, 1879.	Sept., 1880.	
Colfax.....	.....	.....
Curry.....	.....	.....
Harney.....	Aug. 16, 1867.	May 5, 1880.	
HOWARD	Aug. 12, 1877.	.....
Loring, Oregon	July, 1849.	May 6, 1850.	
Lyon, I. T.....	June 27, 1865.	April 27, 1869.	
San Juan.....	1859.	.....
SPOKANE	Nov., 1880.	.....
C. F. Smith	April, 1866.	Nov. 9, 1869.	
Three Forks.....	Sept. 25, 1866.	Oct. 23, 1871.	
Warner.....	Sept., 1867.	Sept. 13, 1874.	
Watson	July 12, 1864.	May 24, 1869.	
Winthrop.....	.....	.....	See Camp Three Forks.
BOISE BARRACKS, I. T.....	July 4, 1863.	.....	Formerly known as Fort Boise.
VANCOUVER BARRACKS.....	May 15, 1849.	.....	Established as Columbia Barracks; name changed July 13, 1853, to Fort Vancouver; changed again April 5, 1879, to Vancouver Barracks.
VANCOUVER ARSENAL	1859.	.....

FORAGE AGENCIES.

Corrected to May 1, 1881. (See Circular N^o. 17, Headquarters Department of the Columbia, September 5, 1880.)

FORT WALLA WALLA FORAGE DISTRICT.—No. 1.

No. of Station.	STATION.	AGENT.	Distance between points.	Price of Grain & Hay		Officer designated to pay for Forage.
				miles.	cts.	
1	Touchet River, W. T.	B. F. Flathers	.....	3	2	
2	Palouse Ferry, do.	Lyons & Markley	24	4	3 $\frac{1}{2}$	
3	Washtucna Springs, do.	G. W. Bassett	18	4	3 $\frac{1}{2}$	
4	Cow Creek, do.	J. F. Cass	18	4	3 $\frac{1}{2}$	
5	Waitsburg, do.	Frank G. Hart	2 $\frac{1}{2}$	4	3 $\frac{1}{2}$	
6	Dayton, do.	W. R. Brown	10	2	1 $\frac{1}{4}$	
7	Marengo, do.	H. Harris	14	3	2	
8	Pomeroy, do.	Mulkey Brothers	12	3	1 $\frac{1}{2}$	

FORT COEUR D'ALENE FORAGE DISTRICT.—No. 2.

1	Big Lake Ranch, W. T.	P. Comasky	.....	3	2	1
2	Crab Creek, do.	C. Misner	20	4	3	
3	Spokane Falls, do.	Davenport & King	30	3 $\frac{1}{2}$	2 $\frac{1}{2}$	
4	Moran's Ranch, do.	Jos. Moran	.....	3	3	
5	Rosalia, do.	J. M. Whitman	30	3	2	
6	Colfax, do.	Davenport & King	30	3 $\frac{1}{2}$	2 $\frac{1}{2}$	
7	Cottonwood Springs, do.	A. Harker	20	4	2	

FORT COLVILLE FORAGE DISTRICT.—No. 3.

1	Spokane Bridge, W. T.	Jos. Lapray	.....	3	3	
2	Haines' Ranch, do.	Guy Haines	.....	4	2	
3	Young's Ranch, do.	H. E. Young	.....	2	1 $\frac{1}{2}$	
4	Chewelah, do.	Thos. Brown	.....	2	1	

FORT LAPWAI FORAGE DISTRICT.—No. 4.

1	Rafferty's Ranch, W. T.	Jas. Rafferty	.....	1 $\frac{1}{2}$	1 $\frac{1}{2}$	
2	Alpowa, do.	D. H. Mohler	9	2 $\frac{1}{2}$	2 $\frac{1}{2}$	
3	Lewiston, I. T.	N. B. Holbrook	15	1 $\frac{1}{2}$	1 $\frac{1}{2}$	
4	Spring Ranch, I. T.	P. White	.....	2	1 $\frac{1}{2}$	
5	Mason's Ranch, I. T.	P. White	8	2	1 $\frac{1}{2}$	
6	Ruddy's Ranch, W. T.	Richard Ruddy	.....	2	1 $\frac{1}{2}$	

CAMP HOWARD FORAGE DISTRICT.—No. 5.

1	Cottonwood, I. T.	H. L. Wilson	18	3	2	
						{ Post Q.M., Camp Howard, I. T.

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TABLE NO. I.

Portland, Oregon, to Lewiston, I. T.—via the Columbia and Snake Rivers.

From information furnished by the Oregon Railroad & Navigation Company.

LOCALITY.	Dist.—Miles.		Alt.	BY	REMARKS.
	From Portland.	From Lewiston.			
PORTLAND .....	..	401	50		
Vancouver	18	18	383	River.	
Lower Cascades	45	63	338	“	
Upper Cascades	6	69	332	Railroad.	
Hood River	28	97	304	River.	
The Dalles	24	121	280	“	
Celilo	14	135	266	Railroad.	
Columbus	6	141	260	River.	
John Day's Rapids	10	151	250	“	
Indian Rapids	3	154	247	“	
Squally Hook	3	157	244	“	
Rock Creek	4	161	240	“	
Chapman's Woodyard	8	169	232	“	
Owyhee Rapids	2	171	230	“	
Willow Creek	13	184	217	“	
Castle Rock	8	192	209	“	
Canoe Encampment	2	194	207	“	
Foot of Long Island	4	198	203	“	
Grande Ronde Landing	12	210	191	“	
Devil's Bend	3	213	188	“	
Umatilla	4	217	184	“	
Head Umatilla Rapids	6	223	178	“	
Windmill Rock	3	226	175	“	
Walla Walla	14	240	161	“	
Homely Rapids	5	245	156	“	
Ainsworth	6	251	150	“	
Five-Mile Rapids	5	256	145	“	
Fish-Hook Rapids	9	265	136	“	
Lower End of Canon	2	267	134	“	
Upper End of Canon	2	269	132	“	
Jim Fort Island	6	275	126	“	
Pine Tree Rapids	7	282	119	“	
Palouse Ferry	30	312	89	“	
Tucannon or Grange City	5	317	84	“	
Taxas Rapids	6	323	78	“	
Taxas Ferry	2	325	76	“	
New York Bar	10	335	66	“	
Central Ferry	6	341	60	“	
Purrington	2	343	58	“	
Penewawa	5	348	53	“	
Almota	14	362	39	“	
Wawawa	8	370	31	“	
Steptoe	19	389	12	“	
Alpowa	3	392	9	“	
Selkirk's or White's Ferry	2	394	7	“	
LEWISTON	7	401	—	“	

{ Connections for Warm Springs,
Prineville, Canyon City, &c.

{ Connections for Baker City,
Boise, Kelton, &c.

{ Connections for Walla Walla,
Lewiston, Lapwai, Grande
Ronde, &c.

{ Connections for Camp Spokane,
Spokane Falls, Colville &
Cœur d'Alene.

Snake River.

{ Connections for Camp Spokane,
Fort Colville, Spokane Falls,
&c.

{ Connections for Spokane Falls,
&c.

{ Stage connections for Walla
Walla, Colfax, Spokane Falls,
&c.

{ Stage connections for Walla
Walla, Dayton, Colfax, Spokane
Falls, &c.

{ Connections for Spokane Falls,
Colfax, Walla Walla, Dayton,
Lapwai, Mount Idaho, Camp
Howard, Kamia, &c.

TABLE NO. II.

Portland to Roseburg, Oregon.

From time-table of Oregon and California Railroad.

LOCALITY.	Dist.—Miles.			REMARKS.
		From East Portland.	From Roseburg.	
EAST PORTLAND.....	.....	.....	200	
Milwaukie	7	7	193	
Clackamas.....	4	11	189	
Oregon City.....	5	16	184	
New Era	4	20	180	
Canby	5	25	175	
Aurora	4	29	171	
Hubbard	4	33	167	
Woodburn	4	37	168	
Gervais	3	40	160	
Brooks.....	5	45	155	
Salem	8	53	147	{ Stages for Lincoln, Wheatland, Monmouth, Dallas, Silverton and Independence.
Turner	8	61	139	{ Stages for Amesville, Sublimity, Stayton, Meha- ma and King's Prairie.
Marion	6	67	133	Stages for Scio.
Jefferson	5	72	128	
Miller's.....	4	76	124	
Albany	5	81	119	{ Stages for Lebanon, Corvallis, Philomath, Ya- quina Bay, Beuna Vista, Sodaville, Sweet Home and Waterloo.
Tangent.....	6	87	113	
Sheds	6	93	107	
Halsey	5	98	102	Stages for Brownsville and Crawfishville.
Harrisburg	8	106	94	
Junction	4	110	90	Stages for Monroe and Gird's Station.
Irving	7	117	83	
Eugene City.....	7	124	76	{ Stages for McKinzie's Bridge, Upper Ochoco and Prineville.
Creswell.....	11	135	65	
Latham	10	145	55	
Divide.....	3	148	52	
Comstock	8	156	44	{ Stages for Empire City, Marshfield, Elkton, Scotts- burgh and Gardner City.
Drains	5	161	39	
Yoncalla.....	6	167	33	
Rice Hill.....	6	173	27	
Oakland.....	8	181	19	Stages for Cleveland.
Umpqua.....	9	190	10	
ROSEBURG	10	200	...	{ Stages of O. & C. Stage Co. for all points in South- ern Oregon, California and the East.

TABLE NO. III.

Portland to Corvallis, Oregon.

From time and distance table of Oregon and California Railroad—West Side Division.

LOCALITY.	Dist.—Miles.		REMARKS.
	From Portland.	From Corvallis.	
PORLAND	97		
Fourth Street Bridge	2	95	
Summit	4	6	91
Beaverton	6	12	85
Reedville	4	16	81
Newton	3	19	78
Hillsboro	2	22	76
Cornelius	3	24	73
Forest Grove	2	26	71
Dilley's	2	28	69
Gaston	4	32	65
Wapato	2	34	63
North Yamhill	6	40	57
Carleton	3	43	54
St. Joseph	4	47	50
McMinnville	3	50	47
Crossing W. V. R. R.	4	54	43
Amity	3	57	40
McCoy's	5	62	35
Derry	8	70	27
Independence	6	76	21
Parker's	5	81	16
Soap Creek	2	83	14
Well's	3	86	11
Mt. View			
CORVALLIS	11	97	Telegraph Station. Stages for Yaquina Bay.

TABLE NO. IV.

Portland to Eugene City, Oregon,—via the Willamette River.

Compiled by Lieut. T. W. Symons, Corps of Engineers.

LOCALITY.	Dist.—Miles.		REMARKS.	
	From Portland.	From Eugene City.		
PORLAND .....	.....	172.0		
Milwaukie	5.5	5.5	166.5	
Oswego	2.0	7.5	164.5	
Oregon City	5.5	13.0	159.0	
Rock Island	3.0	16.0	156.0	
Boone's Ferry	9.0	25.0	147.0	
Butterville	4.0	29.0	143.0	
Champoeg	3.5	32.5	139.5	
Roger's Landing	3.5	36.0	136.0	
Yamhill River	4.5	40.5	131.5	
Fairbanks'	1.5	42.0	130.0	
Weston	2.0	44.0	128.0	
Five Islands	6.5	50.5	121.5	
Fairfield	3.5	54.0	118.0	
Wheatland	4.0	58.0	114.0	
Lincoln	6.0	64.0	108.0	
Salem	6.0	70.0	102.0	
Eola	3.0	73.0	99.0	
Independence	7.0	80.0	92.0	
Buena Vista	10.0	90.0	82.0	
Spring Hill	7.0	97.0	75.0	
Albany	6.0	103.0	69.0	
Corvallis	11.5	114.5	57.5	
Peora	13.0	127.5	44.5	
Harrisburg	20.5	148.0	24.0	
EUGENE CITY	24.0	172.0		

TABLE V.

Portland to Astoria, Oregon, and Forts Canby and Stevens.

Compiled by Lieut. T. W. Symons, Corps of Engineers.

LOCALITY.	Dist.—Miles.		REMARKS.	
	From Portland.	From Fort Stevens.		
PORLAND .....	.....	116 $\frac{3}{4}$		
Kalama	4 $\frac{1}{2}$	4 $\frac{1}{2}$	74 $\frac{3}{4}$	Steamer.
Astoria	68	110	6 $\frac{1}{4}$	"
Fort Stevens	6 $\frac{3}{4}$	116 $\frac{3}{4}$	.....	" U. S. military post.
Astoria to Fort Canby	14	.....	.....
* Fort Stevens .....	.....	.....	.....

* Abandoned January, 1881.

TABLE NO. VI.

Portland, Oregon, to Fort Townsend, W. T.

Compiled by Lieut. T. W. Symons, Corps of Engineers.

LOCALITY.	Dist.—Miles.			Altitude.	Authority.	REMARKS.
	From Portland.	From Fort Townsend.	From Portland.			
PORTRLAND	238	50				
Kalama	42	42	196			
Carroll's	4	46	192		Sladen.	Steamer.
Monticello	4	50	188		N. P. R. R.	Railroad.
Wallace's	1	51	187		"	"
Cowlitz	1	52	186		"	"
Castle Rock	9	61	177		"	"
Olequa	9	70	168		"	"
Craft's	2	72	166		"	"
Winlock	6	78	160		"	"
Napavine	7	85	153		"	"
Newaukum	4	89	149		"	"
Chehalis	3	92	146		"	"
Centreville	4	96	142		"	"
Skookum Chuck	5	101	137		"	"
Tenino	7	108	130		"	See Note.
Yelm Prairie	13	121	117		"	Railroad.
Lake View	17	138	100		"	"
Tacoma	9	147	91	Seaport.	"	Railroad.*
Seattle	25	172	66	"	P. O. Map.	Steamer.†
Port Madison	12	184	54	"	"	"
Port Gamble	26	210	28	"	"	"
Port Ludlow	7	217	21	"	"	"
Port Townsend	18	235	3	"	"	{ Connections for Victoria, Alaska, Whatcom, &c.
FORT TOWNSEND	3	238	....	135	Estimated.	Steamer or wagon.

NOTE.—At Tenino connections are made for Olympia by the Olympia and Tenino Railroad. From Tenino to Tumwater, 3 miles; from Tumwater to Olympia, 13 miles; from Portland to Olympia, 124 miles; from Olympia to Steilacoom 21 miles; from Steilacoom to Tacoma, 14 miles; from Olympia to Tacoma, by water, 35 miles.

* To Wilkeson coal mines, 28 miles.

† To Blakely, 10 miles, by steamer.

TABLE NO. VII.

Umatilla, Oregon, and Walla Walla, W. T., (via Baker and Boise City, I. T.), to Kelton, U. T.

Compiled by Lieut. J. A. Sladen, 14th Infantry, Aide-de-Camp.

LOCALITY.	Dist.—Miles.		Altitude	REMARKS.
	From Umatilla.	From Kelton.		
UMATILLA, Oregon	532			
Twelve-mile House	12	12	520	
The Wells	6	18	514	
PENDLETON, (Swift's Ranch)	18	36	496	
Cayuse Ranch	14	50	482	
Blue Mountain Summit	16	66	456	
Pelicans	15	81	441	
Orodell	11	92	430	
La Grande	3	95	427	
Union	16	111	411	
Stark's or North Powder	16	127	395	
Farley's Ranch	6	133	389	
BAKER CITY	16	149	373	
Lowes	18	167	355	
Sisley's or Weatherby	17	184	348	
Miller Station	16	200	332	
Canvas, Idaho	15	215	317	
Crystal	11	226	306	
Bluff Station	12	238	294	
Payette	13	251	281	
Willow Creek	18	269	263	
BOISE CITY	20	289	243	2812
Black's Station	16	305	227	
Bound's Station	12	317	215	
Canyon Creek	12	329	203	
Rattlesnake	9	338	194	
Cold Springs	13	351	181	
King Hill	10	361	171	
Clover Creek	9	370	162	
Malad	13	383	149	
Sand Springs	11	394	138	
Snake River Mines	10	404	128	
Desert	16	420	112	
Rock Creek	15	435	97	
Mountain Meadows	16	451	81	
Oakley	11	462	70	
Summit	11	473	59	
City of Rocks	11	484	48	
Raft River	12	496	36	
Clear Creek, Utah	12	508	24	
Crystal Springs	11	519	13	
KELTON	13	532	.....	4222.2

BRANCH LINE.

WALLA WALLA	.....
Milton	10	miles.
Weston	9	19 do.
Centreville	3.25	22.25 do.
PENDLETON	22	44.25 do.

NOTE.—Stages of the Northwestern Stage Company run daily.

TABLE NO. VIII.

Walla Walla to Spokane Falls, W. T., (via Almota).

From measurements by Lieut. T. W. Symons, Corps of Engineers, and from P. O. Route Map.

LOCALITY.	Dist.—Miles.	Altitude	Authority.	REMARKS.
WALLA WALLA	.....	1033.5		
Buttercup	10.0	145.7	P. O. Map	
Waitsburg	8.5	185.5	Sladen.	{ Road to Taxas Ferry
Dayton	12.0	30.5	“	branches.
Burkesville	11.6	42.1	From Spokane Falls.	Road to Penewawa branches.
Marengo	4.3	46.4	113.6	
Pomeroy	8.7	55.1	109.3	
Mayview	8.0	63.1	100.6	Road to Lewiston branches.
Ilia	6.5	69.6	92.6	
Almota	0.5	70.1	86.1	South bank of Snake River.
Onecho	5.5	75.6	85.6	North
Colfax	10.0	85.6	80.1	“
Steptoe	14.7	100.3	70.1	“
Rosalia	13.8	114.1	55.4	Estimated
Rock Creek	14.0	128.1	41.6	P. O. Map
Spangle	8.0	136.1	27.6	Estimated
SPOKANE FALLS	19.6	155.7	19.6	P. O. Map
			2550	“
			2150	Odometer.
				{ Roads from Colfax in
				every direction.
				Connections for Forts
				Colville, Cœur d'Alene and
				Camp Spokane.

NOTE.—From Walla Walla to Pomeroy, stage daily; from Pomeroy to Colfax, stage twice a week; from Colfax to Spokane Falls, stage three times a week. See Tables IX and XIII.

TABLE IX.

Walla Walla to Spokane Falls, W. T. (via Penewawa).

From measurements by Lieut. T. W. Symons, Corps of Engineers, P. O. Route Map, 1880, and Captain Sladen's tables.

LOCALITY.	Dist.—Miles.		Altitude	Authority.	REMARKS.
	From Walla Walla.	From Spokane Falls.			
WALLA WALLA.....	.....	162.6	1033.5		
Buttercup P. O.....	10.0	10.0	152.6		
Waitsburg.....	8.5	18.5	144.1	Sladen.	
Dayton.....	12.0	30.5	132.1	“	
Tucannon.....	15.0	45.5	117.1	P. O. Map	
Central Ferry.....	17.0	62.5	100.1	“	
Penewawa.....	7.0	69.5	93.1	“	
Colfax.....	23.0	92.5	70.1	2125	
Steptoe.....	14.7	107.2	55.4	2400	Odometer.
Rosalia.....	13.8	121.0	41.6	2400	“
Rock Creek.....	14.0	135.0	27.6	P. O. Map	
Spangle.....	8.0	143.0	19.6	2550	“
SPOKANE FALLS.....	19.6	162.6	.....	2150	Odometer.
					Connections for Colville, Cœur d'Alene and Camp Spokane.

NOTE.—Daily stage line over this route from Walla Walla to Colfax; thence to Spokane Falls stage three times a week. See Tables VIII and XIII.

TABLE NO. X.

Fort Walla Walla, W. T., to Fort Lapwai, I. T.

From measurements made by Lieut. T. W. Symons, Corps of Engineers, 1880.

LOCALITY.	Dist.—Miles.		Altitude	Authority.	REMARKS.
	From Fort Walla Walla.	From Fort Lapwai.			
FORT WALLA WALLA .....	.....	96.6	1033.5		
Waitsburg.....	18.5	18.5	78.1		
Dayton.....	12.0	30.5	66.1	1183	Odometer.
Burkesville.....	11.6	42.1	54.5	“	Road to Taxas Ferry branches.
Marengo.....	4.3	46.4	50.2	1583	“
Pomeroy.....	8.7	55.1	41.5	1982	“
Pataha.....	2.6	55.7	38.0	2187	Road to Almota and Colfax branches.
Alpowa P. O. & toll-house	10.1	67.8	28.8	1600	“
White's Ferry.....	11.5	79.3	17.3	1000	“
Lewiston.....	5.0	84.3	12.3	1053	“
FORT LAPWAI.....	12.3	96.6	.....	1225	“

NOTE.—Daily stage line over this route.

TABLE NO. XI.

The Dalles, Oregon, to Walla Walla, W. T.

From P. O. Ronte Map. Compiled by Lieut. T. W. Symons, Corps of Engineers.

LOCALITY.	Dist.—Miles.		Altitude	Authority.	REMARKS.
	From The Dalles.	From Walla Walla.			
THE DALLES.....	.....	202.25	179.8		
Spanish Hollow.....	28	174.25	.....	P. O. Map	Stage Road.
Scott's.....	17	157.25	.....	"
Rockville.....	6	151.25	.....	"
Olex.....	12	139.25	.....	"
Willow Forks.....	21	118.25	.....	"
Heppner.....	15	103.25	.....	"
Lena.....	15	88.25	.....	"
Butter Creek.....	13	75.25	.....	"
Pilot Rock.....	15	60.25	.....	"
Pendleton.....	16	44.25	.....	"
Centreville.....	22	22.25	.....	"
Weston.....	3.25	19	.....	"
Milton.....	9	10	.....	"
WALLA WALLA.....	10	202.25	1033.5		

NOTE.—Daily overland mail and stage route. Daily overland stage to Boise and Kelton leaves Umatilla and Pendleton. See Table XVII.

TABLE NO. XII.

Fort Walla Walla to Camp Chelan, W. T., (via Palouse Ferry and "Wild Goose Bill's").

From odometer measurements by Lieut. T. W. Symons, Corps of Engineers, 1879.

LOCALITY.	Distances—Miles.			Altitude	REMARKS.
	From Walla Walla.	From Camp Chelan.	From Camp Chelan.		
FORT WALLA WALLA .....	.....	229.54	1033 5		U. S. Military Station
Dry Creek	8.08	8.08	221.46	.....	Wood, water and grass.
Touchet River	8.43	16.51	213.03	.....	do do do.
Colville or Sheep Spring	5.66	22.17	207.37	.....	No wood; water scarce; grass plenty.
Snake River	16.49	38.66	190.88	.....	No wood; water and grass plenty.
Washtucna Coolee (Bas- set's)	14.12	52.78	176.76	.....	Wood, water and grass.
Mullan Road	6.46	59.24	170.30	.....	do do do.
Cow Creek	11.50	70.74	158.80	.....	do do do.
Colville Road	4.09	74.83	154.71	.....	{ Road to Colville and Spokane { country branches.
Crab Creek (Willie's)	14.48	89.31	140.23	.....	Wood, water and grass.
Cold Spring	17.89	107.20	122.34	2350	do do do.
Lone Star Ranch or Mus- quito Springs	8.1	115.30	114.24	.....	Water and grass; wood scarce.
Condor's Ranch (Wild Goose Bills)	22.5	137.80	91.74	2110	Wood, water and grass.
Orchard Spring	9.06	146.86	82.68	2165	do do do.
Morrel Spring	10.33	157.19	72.35	.....	do do do.
Spring in Grand Coulee, near mouth	6.97	164.10	65.38	1425	do do do.
Cow Springs	9.86	174.02	55.52	2300	do do do.
Head of Foster Creek	18.32	192.34	37.20	1790	do do do.
Forks of Road	13.5	205.84	23.70	.....	do do do.
Eight-Mile Spring	8.5	214.34	15.20	.....
Top of Hill	8.2	222.54	7.00	3300	
Columbia River	5.5	228.04	1.5	825	
CAMP CHELAN	1.5*	229.54	.....	1100	

* Estimated.

TABLE NO. XIII.

Fort Cœur d'Alene, I. T., to Fort Walla Walla, W. T., (via Taxas Ferry and Waitsburg.)

From odometer measurements by Lieut. T. W. Symons, Corps of Engineers, 1879.

LOCALITY.	Distances—Miles.		Altitude	REMARKS.
	From Cœur d'Alene.	From Fort Walla Walla		
FORT COEUR D'ALENE . . .	.....	166.31	2311	U. S. Military Station.
Cowley and Ford's Bridge	12.65	12.65	153.66	.....
SPOKANE FALLS.....	16.48	29.13	137.78	Store, etc., over Spokane River.
Forks of road	12.69	41.82	124.49	.....
Sander's Ranch (Rock Creek)	12.91	54.73	111.58	Left hand to Colfax, Lewiston, etc.
Pine Creek	11.85	66.58	99.73	Water, wood and forage.
Pleasant Valley	8.08	74.66	91.65	do do do
Palouse River	7.17	81.83	84.48	do do do
Rebel Flat Creek.....	7.51	89.34	76.97	do do do
Union Flat	5.35	94.69	71.62	do do do
Willow Creek	10.35	105.04	61.27	Water and forage.
McManaman's Ranch ..	11.13	116.17	50.14	Water, wood and forage.
Taxas Ferry (Snake Riv)	5.89	122.06	44.35	Wire rope ferry.
Tucannon River Bridge..	7.42	129.48	36.83	Water, wood and forage.
Whetstone Flat.....	12.08	141.56	24.75	McCluny's ranch, water, wood and forage.
Waitsburg.....	6.30	147.86	18.45	Town on Touchet River, water, wood and forage.
Dry Creek	11.00	158.86	7.45	Wood, water and forage.
FORT WALLA WALLA ..	7.45	166.31	1033.5	U. S. Military Station.

NOTE.—This is the shortest and best road from Walla Walla to Spokane Falls and Cœur d'Alene. There is a weekly mail over this route. See Tables VIII and IX for two other routes.

TABLE XIV.

Fort Walla Walla to Fort Colville, W. T.

Compiled by Lieut. T. W. Symons, Corps of Engineers, from Captain Sladen's tables and odometer measurements by Lieut.-Colonel Merriam, 2d Infantry.

LOCALITY.	Distances—Miles.		Altitude	REMARKS.
	From Fort Walla Walla.	From Fort Colville.		
FORT WALLA WALLA	204.04	1033.5		
Dry Creek	7.5	7.5	196.54	Wood, water and grass.
Touchet River	11.5	19.0	185.04	do do do.
Sheep Spring	7	26.0	178.04	Spring up canyon, $\frac{1}{2}$ mile to right; no wood.
Snake River (Palouse Ferry)	16.22	42.22	161.82	Silcott & Lyon's Ferry.
Palouse Spring	13.75	55.97	148.07	Grass and water; wood scarce.
Cow Creek	10.5	66.47	137.57	Lucas' Ranch.
Alkali Lake	16	82.47	121.57	Grass and water; wood scarce.
Lugenbeel Creek	5	87.47	116.57	Wood, water and grass.
Kamiaken Spring	8.75	96.22	107.82	Cummasky's Ranch near by; a good place for camp.
SPRAGUE	4.5	100.72	103.32	Road forks just beyond; keep to the right; left to Columbia River.
Mud Springs	7	107.72	96.32	Grass and water; wood scarce.
Rock Creek	3.22	110.94	93.10	Wood, water and grass.
Willow Spring	12	122.94	81.10	do do do.
Cooley Creek	11.5	134.44	69.60	
Spokane River	8.8	143.24	60.80	
Haine's Ranch	6.9	150.14	53.90	
Sheep Creek	14.7	164.84	39.20	
Brown's Ranch (Fool's Prairie)	14.2	179.04	25.00	
FORT COLVILLE	25	204.04	2800	From odometer measurements by Lieut. Col. H. C. Merriam, 2d Infantry. Wood, water and grass.

NOTE.—Just beyond Sheep Creek the road forks, both coming together again at "Brown's." The left-hand road is best and shortest, but is impassable during winter and spring. The right-hand road is very hilly, but otherwise good.

TABLE NO. XVI.

Walla Walla to Camp Spokane, W. T.,

Compiled by Lieut. T. W. Symons, Corps of Engineers.

LOCALITY.	Distances—Miles.			Altitude	Authority.	REMARKS.
		From Walla Walla.	From Camp Spokane.			
WALLA WALLA		135.20	1033.5			
Dry Creek	8.08	8.08	127.12			Odometer.
Touchet River	8.43	16.51	118.69			"
Colville or Sheep Spring.	5.06	22.17	113.03			"
Snake River	16.49	38.66	96.54			"
Washtucna Coolee	14.12	52.78	82.42			"
Mullan Road	6.46	59.24	75.96			"
Cow Creek	11.50	70.74	64.46			"
Colville Road	4.09	74.83	60.37			"
Crab Creek (Willie's)	14.48	89.31	45.89			"
Cold Spring	17.89	107.20	28.89	2350		"
Cottonwood Spring	8.00	115.20	20.00	2725		Estimated.
CAMP SPOKANE	20.00	135.20	.....	1615		"

TABLE NO. XVI.

Walla Walla to Yakima City, W. T.,

Estimated by Lieutenant O. L. Hein, 1st Cavalry.

LOCALITY.	Distances—Miles.			Altitude	REMARKS.
		From Walla Walla.	From Yakima.		
WALLA WALLA		130	1033.5		
Touchet	17	17	113		Water; some wood; a little grass.
Columbia River (opposite Wallula)	15	32	98	330	Water and wood; no grass.
Mouth of Yakima River	22	54	76	365	do do do.
Lone Cottonwood (on Yakima River)	30	84	46		Water; no grass; some wood.
Satass Creek	20	104	26		Water and grass; some wood.
LaChapelle's Ferry	23	127	3		Wood and water; no grass.
YAKIMA	3	130	.....		Town; county seat and Land Office.

TABLE NO. XVII.

The Dalles, Oregon, to Walla Walla, W. T.

From Captain Sladen's tables, Hdqrs. Dept. Columbia, 1878, and P. O. Route Map.

LOCALITY.	Distances—Miles.		Altitude	Authority.	REMARKS.
	From The Dalles.	From Walla Walla.			
THE DALLES.....	.....	184.25	179.8		Stage Road.
Price's.....	21	21.	163.25	Sladen.	" "
John Day's Bridge.....	21	42.	142.25	"	" "
Willow Creek.....	25	67.	117.25	"	" "
UMATILLA.....	34	101.	83.25	"	
Pendleton.....	39	140.	44.25	P. O. Map	"
Centreville.....	22	162.	22.25	"	
Weston.....	3.25	165.25	19.	"	
Milton.....	9	174.25	10.	"	
WALLA WALLA.....	10	184.25	1033.5	"	

NOTE.—Daily overland stage to Boise and Kelton from Umatilla and Pendleton. See Table XI.

CAPT. A. W. CORLISS,

8th Infantry, U. S. A.

TABLE NO. XVIII.

The Dalles to Fort Harney, Oregon, (via Canyon City).

Compiled and adjusted by Lieut. T. W. Symons, Corps of Engineers.

LOCALITY.	Distances—Miles.		Altitude	Authority.	REMARKS.
	From The Dalles	From Fort Harney.			
THE DALLES.....	.....	265.86	179.8	Odometer.	Good water and grass.
Eight-Mile Creek.....	8.23	8.23	257.63	“	do do do
Fifteen-Mile Creek.....	4.02	12.25	253.61	“	do do do
Dry Creek.....	4	16.25	249.61	Estimated.	do do do
Chicken Spring.....	7.75	24.00	241.86	“	do do do
Warner's Ranch.....	2	26	239.86	“	No wood.
Shearer's Bridge (Des Chutes River).....	4.05	30.05	235.81	702	Good water; feed can be bought.
Salt Spring.....	8.88	38.93	226.93	.....	Good water; no wood.
Bake Oven.....	10.63	49.56	216.30	.....	Good water; feed can be bought.
Cross Hollows (Shernick- ons' store).....	8.00	57.56	208.30	3197	Time.
Antelope P. O. (creek).....	7.00	64.56	201.30	2845	“
Cold Spring.....	6.00	70.56	195.30	“	“
Curran Creek (stage sta- tion).....	4.5	75.06	190.80	2142	Good water and grass
Cherry Creek.....	11.5	86.56	179.30	.....	“
Burnt Ranch (station).....	6.5	93.06	172.80	1561	“
Bridge Creek P. O.	6.3	99.36	166.50	.....	Good water; feed can be bought.
Alkali Flat (ranch).....	6.25	105.61	160.25	.....	“
Mountain House.....	14.00	119.61	140.25	.....	Good water and grass.
McNeal's Ranch.....	1.75	121.36	144.50	.....	do do do
OLD CAMP WATSON.....	5.5	126.86	139.00	.....	Stage station; water.
Rock Creek.....	6.00	132.86	133.00	.....	Good water.
Spanish Gulch.....	2.00	134.86	131.00	.....	Houses.
Birch Creek.....	7.00	141.86	124.00	.....	House; good water.
Battle Creek.....	8.00	149.86	116.0	.....	do do do
Dayville (south fork John Day).....	5.00	154.86	111.0	.....	Wood, water and grass.
County Bridge (John Day River).....	8.00	162.86	103.0	.....	do do do
Gunlap's Ranch.....	9.5	172.36	93.50	.....	do do do
Beach Creek.....	8.75	181.11	84.75	.....	do do do
John Day City.....	8.5	189.61	76.25	.....	Town on River.
CANYON CITY.....	3.25	192.86	73.00	.....	Town.
Crane Creek Bridge.....	14.5	207.36	58.50	.....	Wood, water and grass.
Bear Creek Bridge.....	10	217.36	48.50	.....	do do do
Soda Springs.....	4.5	221.86	44.0	.....	do do do
Cow Springs.....	4.00	225.86	40.0	.....	Good water, wood and grass.
Musquito Creek.....	6.00	231.86	34.0	.....	“
Mountain Springs.....	7.00	238.86	27.0	.....	“
French's saw-mill.....	15.00	253.86	12.0	.....	“
FORT HARNEY.....	12.00	265.86	.....	4850	“

NOTE—These distances are from field notes of Captain W. H. Winters, 1st Cavalry, in January, 1877, the distances being estimated, and from the time meanders of Lieutenants Wheeler and Symons, Corps of Engineers, in 1878, and from the Post Route Map of the Post Office Department for 1877.

TABLE NO. XIX.

The Dalles, Oregon, to Camp Bidwell, Cal., (via Prineville).

From measurements made by Lieut. T. W. Symons, Corps of Engineers, 1878.

LOCALITY.	Distances—Miles.			Altitude	Authority.	REMARKS.
	From The Dalles	From Camp Bidwell.	From Camp Bidwell.			
THE DALLES.....	.....	332.34	134.7	Odometer		Town on Columbia R.
Dufur (on 15-Mile Creek)	14.79	14.79	317.55	1266.7	"	{ Settlement; forage
Tygh Valley.....	17.00	31.79	300.55	1088.8	Time.	{ must be bought.
Oak Grove	15.76	47.55	284.79	2414.5	"	Small settlement; water, wood and grass.
Neene Spring.....	6.25	53.80	278.54	2914.2	"	Good water and grass.
Warm Spring Agency....	20.45	74.25	258.09	1513.9	"	Wood scarce; grass on hills in vicinity.
Lodge Pole Creek.....	5.92	80.17	252.17	1648.3	Odometer	Good grass and water; wood scarce.
Willow Creek	20.72	100.89	231.45	3079.6	"	Water, wood and grass.
PRINEVILLE.....	21.12	121.91	210.43	2899	"	{ Large town; forage can be bought; wood and grass on hills in vicinity.
Green's Ranch.....	25.90	147.81	184.53	4479	"	Water, wood and grass.
Waterhole	12.80	160.61	71.73	.....	"	{ No wood; good grass; bad water, in deep hole.
Langton's Ranch.....	17.71	178.32	154.02	5162.9	"	Water scarce; wood and grass.
Button's Ranch (Christmas Lake).....	22.90	201.22	131.12	4236.7	"	{ No wood; good water; grass scarce; feed can be bought.
Durand's Ranch (Silver Lake).....	19.90	221.12	111.22	4312	"	Forage must be bought.
Parton's Ranch (Summer Lake).....	15.91	237.03	95.31	4497.6	"	Wood, water and grass.
Miller's Ranch (Summer Lake).....	17.31	254.34	78.00	4420.3	"	do do do
Chewaucan	8.93	263.27	69.07	.....	"	Forage must be bought.
Moss' Ranch	11.67	274.94	57.40	4827.8	"	Grass and water on hills in vicinity.
Saw-mill.....	9.52	284.46	47.88	.....	"	{ Settlement. U. S. Land Office; water, wood and grass.
LAKEVIEW.....	17.87	302.33	30.01	4851	"	Plenty of good water, wood and grass.
Cottonwood Creek.....	18.70	321.03	11.31	5228.9	"	Two company post....
CAMP BIDWELL.....	11.31	332.34	.....	4647	"	

NOTE.—From The Dalles to Prineville a daily stage runs. From Prineville to Lakeview mail once a week, carried on horseback.

TABLE NO. XX.

Fort Klamath to The Dalles, Oregon.

From measurements by Lieuts. Wheeler and Symons, Corps of Engineers, 1878.

LOCALITY.	Distances—Miles.			Altitude	Authority.	REMARKS.
	From Fort Klamath.	From The Dalles.	.....		
FORT KLAMATH .....	.....	266.51	.....	4108.4	.....	{ Two company post; water, wood and grass in vicinity.
Klamath Agency.....	6.1	6.1	260.41	.....	Odometer.	
Williamson River.....	11.7	17.8	248.71	4387	“	
Big Springs.....	22.85	40.65	225.86	4552.5	“	
Corral Springs.....	21.64	62.29	204.22	4782.6	“	
Little Meadows (on east fork of Des Chutes R.)	17.10	79.39	187.12	4258.2	“	
East fork of Des Chutes (near mouth Pauline Cr)	21.74	101.13	165.38	4081.1	“	
Big Meadows.....	13.90	115.03	151.48	4123.7	“	
Farewell Bend.....	15.80	130.83	135.68	3620.9	“	
Carnical's Ranch (on Crooked River)	25.84	156.67	109.84	2736.2	“	
Ranch.....	15.1	171.77	94.74	2443.4	“	
Sheep Ranch.....	10.83	182.60	83.91	.....	“
Lodge Pole Creek.....	13.73	196.33	70.18	.....	“
Des Chutes Ferry.....	3.61	199.94	66.67	.....	“
Warm Spring Agency....	2.31	202.25	64.26	1513.9	“	
Neenee Spring.....	20.45	222.7	43.81	2914.2	Time.	Good water, wood and grass.
Oak Grove.....	6.25	228.95	37.56	2414.5	“	Small settlement; water, wood and grass.
Tygh Valley.....	15.76	234.71	21.80	1088.8	“	
Fifteen-Mile Creek.....	17	251.71	14.80	1266.7	Odometer	{ Settlement; forage must be bought.
THE DALLES.....	14.8	266.57	.....	134.7	“	Town on Columbia R.

NOTE.—This is an excellent road, although very little traveled.

TABLE NO. XXI.

The Dalles, Oregon, to Tygh Valley, (via Miller's Bridge and Shearer's Bridge.)

From odometer measurements by Lieut. T. W. Symons, Corps of Engineers.

LOCALITY.	Distances—Miles.			Altitude	REMARKS.
	From The Dalles.	From Tygh Valley.			
THE DALLES.....	.....	85.82	134.9		Large town on Columbia River.
Five-Mile House.....	6.55	6.55	77.27	.....	Junction of 8 and 5-mile Creeks; country rather barren; no wood.
Fifteen-Mile Creek.....	5.10	11.65	72.17	.....	Ranch; grass scarce; no wood.
Miller's Bridge (over Des Chutes Riv. near Celilo).....	5.62	17.27	66.55	165.8	Ranch; no wood; grass scarce; forage for sale here.
Ranch.....	10.19	27.46	56.36	.....	Water; grass; wood very scarce.
Spring in ravine (near Grant's Landing).....	1.21	28.67	55.15	.....	Good water; grass and wood scarce.
Eaton Ranch P. O.	8.8	37.47	47.35	.....	Good grazing and water; no wood.
Barnum's Ranch.....	11.32	48.79	36.03	1795.2	Grass Valley; no wood; good water and grass.
Shearer's Bridge.....	28.54	77.33	7.49	2006.9	No wood; grass scarce; forage can be purchased.
TYGH VALLEY.....	7.49	84.82	.....	1088.8	Settlement: forage must be purchased; some grazing on surrounding hills.

TABLE NO. XXII.

The Dalles to Lower Cascades, Oregon.

From odometer measurements by Lieut. T. W. Symons, Corps of Engineers, 1878.

LOCALITY.	Distances—Miles.			Altitude	REMARKS.
	From The Dalles.	From Lower Cascades.			
THE DALLES.....	.....	50.05	134.7		Large town.
Mosher Creek.....	13.01	13.01	37.04	.....	Water, wood and grass.
Huk's Ranch.....	5.70	18.71	31.34	.....	Grass scarce; water and wood; forage can be bought.
Hood River.....	4.39	23.10	26.95	260.0	Ranch; grass scarce; water and wood; forage can be bought.
Hood River P. O. ....	.51	23.61	26.44	.....	Ranch.
Hotel.....	.6	24.21	25.84	.....	No grass; water and wood.
Upper Cascades.....	20.89	45.10	4.95	126.6	Good grass and wood.
LOWER CASCADES.....	4.95	50.05	.....	.....	Good grass and wood.

TABLE NO. XXIII.

Lewiston, I. T., to Spokane Falls, W. T.

From odometer measurements by Lieut. T. W. Symons, Corps of Engineers, 1880.

LOCALITY.	Distances—Miles.		Altitude	REMARKS.
	From Lewiston.	From Spokane Falls.		
LEWISTON	107.9	1053		
Reddy's Ranch	5.1	102.8	2850	
Uniontown	5.2	103.1	2825	
Colton	3.1	13.4	2750	
Leitchville	4.0	17.4	2750	
Iren	7.3	24.7	2550	
Ewartsville	11.5	36.2	2250	
Colfax	9.2	45.4	2125	
Steptoe (Davis')	14.7	60.1	2400	
Rosalia	13.8	73.9	2400	
Spangle	14.4	88.3	2550	
SPOKANE FALLS	19.6	107.9	2150	

NOTE.—The best road between Lewiston and Spokane Falls. Good accommodation for man and beast all along the road. See Table XXIV.

TABLE NO. XXIV.

Lewiston, I. T., to Spokane Falls, W. T., (via Palouse City).

From measurements by Lieut. T. W. Symons, Corps of Engineers, P. O. Route Map, and other sources.

LOCALITY.	Distances—Miles.		Altitude	Authority.	REMARKS.
	From Lewiston.	From Spokane Falls.			
LEWISTON	108.3	1053			
Reddy's Ranch	5.2	103.1	2850	Odometer.	
Forks of road	2.0	7.2	101.1	"	Left-hand road to Colfax
MOSCOW	22.0	29.2	79.1	Estimated.	
PALOUSE CITY	15.0	44.2	64.1	"	{ To Lincoln 9½ miles.
Cedar Creek	5.0	49.2	59.1	"	{ To Colfax 21½ miles.
Farmington	10.0	59.2	49.1	"	
Hangman's Creek	15.0	74.2	34.1	"	To Steptoe 19 miles.
Waverly	4.5	78.7	29.6	"	To Rosalia 20 miles.
Spangle	10.0	88.7	19.6	"	
Forks of road	7.4	96.1	12.2	Odometer.	Old Mullan Road.
SPOKANE FALLS	12.2	108.3	2150	"	

NOTE.—See Table XXIII.

TABLE NO. XXV.

Lewiston and Fort Lapwai to Camp Howard, I. T.

From odometer measurements made by Lieut. T. W. Symons, Corps of Engineers, 1880.

LOCALITY.	Distances—Miles.		Altitude	REMARKS.
	From Lewiston.	From Camp Howard.		
LEWISTON .....	... .	67.8	1053	
Fort Lapwai	12.6	12.6	1225	
White's Ranch.....	11.4	24.0	43.8	Stage station. Hotel.
Mason's Prairie.....	8.3	32.3	35.5	Ranch abandoned.
Lawyer's Canyon	10.5	42.8	25.0	4100
Cottonwood.....	8.0	50.8	17.0	do do
Grangeville	14.4	65.2	2.6	3600 Stage station. Hotel.
CAMP HOWARD.....	2.6	67.8	... .	3550 Town.
			4100	One company post.

NOTE.—About $2\frac{1}{2}$ miles from Grangeville to Mount Idaho; about 3 miles from Camp Howard to Mount Idaho. Daily stage from Lewiston to Mount Idaho. From Fort Lapwai to Shissler's Ranch, $11\frac{1}{2}$ miles.

Shissler's Ranch is 3150 feet above sea level.

Lake Waha, 3560 do do.

Small Lake Waha, 3515 do do.

TABLE NO. XXVI.
Fort Lapwai, I. T., to Fort Colville, W. T.

By Lieut. R. H. Fletcher, 21st Infantry, and Lieut. T. W. Symons, Corps of Engineers.

LOCALITY.	Distances—Miles.		Altitude	Authority.	REMARKS.
	From Fort Lapwai.	From Fort Colville.			
FORT LAPWAI.....	.....	213.8	1225		
Lewiston	12.6	12.6	1053	Odometer.	
Reddy's	5.2	17.8	196	"	
Tiernan's	5	22.8	191	Estimated.	
Palouse Brdg.....	28	50.8	163		
Pine Creek (Campbell's)	15	65.8	148		
Hangman's Creek	15	80.8	133		
California Ranch	40	120.8	93		
Spokane River (Upper or Middle Bridge)	10	130.8	83		
Little Spokane	18	148.8	65		
Deserted Cabin	15	163.8	50		
Brown's (Colville Valley)	25	188.8	25		
FORT COLVILLE	25	213.8	2800		

NOTE.—From Pine Creek to Hangman's Creek take a guide; roads and trails are numerous. Follow the left-hand broad trail on leaving Hangman's Creek. Ten miles of road over mountain not practicable for ambulances.

Wood, water and grass for whole distance. This route, for a greater part of the way, is only a trail, and although ambulances have gone over, it is very difficult for them to get through.

See Tables XXIII and XXIV.

TABLE NO. XXVII.
Fort Cœur d'Alene, I. T., to Camp Spokane, W. T.

Compiled by Lieut. T. W. Symons, Corps of Engineers.

LOCALITY.	Distances—Miles.		Altitude	Authority.	REMARKS.
	From Cœur d'Alene.	From Camp Spokane.			
FORT COEUR D'ALENE .....	.....	88.89	2311		
Cowley's & Ford's Bridge	12.65	12.65	76.24	Odometer.	Over Spokane River.
Spokane Falls	16.48	29.13	59.76	"	
Deep Creek Falls	15.68	44.81	44.03	2750	
Spring and Flat near head of Crab creek	11.50	56.31	32-58	"	
Cottonwood Spring	12.58	68.89	20.00	2725	
CAMP SPOKANE	20.00	88.89	.....	1615	Estimated.

NOTE.—A cut-off can be made by leaving the old road (White Bluff's Road) about four or five miles east of Cottonwood Spring, and leaving this spring to the left; so I am informed by Colonel Mason and Captain Sladen.

TABLE NO. XXVIII.

Camp Chelan to Fort Cœur d'Alene.

From odometer measurements by Lieut. T. W. Symons, Corps of Engineers, 1879.

LOCALITY.	Distances—Miles.		Altitude	REMARKS.
	From Camp Chelan	From Cœur d'Alene		
CAMP CHELAN.....	.....	192.32	1100	Established in 1880.
Columbia River.....	1.5	1.5	190.82	825 Crossing by small boats.
Top of Hill.....	5.5	7.0	185.32	3300
Eight-Mile Springs.....	8.2	15.2	177.12	
Forks of Road.....	8.5	23.7	168.62	
Head of Foster Creek.....	13.5	37.2	155.12	1790 Wood, water and grass
Cow Springs.....	18.32	55.52	136.80	2300 Left fork goes to old winter camp, mouth of Foster Creek.
Springs in Grand Coulee (near mouth).....	9.86	65.38	126.94	21425 Water, wood and grass. do do do.
Morrel Springs.....	6.97	72.35	119.97	2165 Steep hills up and down into cou- lee; water, wood and grass.
Orchard Springs.....	10.33	82.68	109.64	2165 Water and grass; no wood.
Condon's Ranch (Wild Goose Bill's).....	9.06	91.74	100.58	2110 Water, wood and forage.
Mosquito Spring or Lone Star Ranch.....	22.5	114.24	78.08	2110 Water and grass; wood scarce.
Forks of Road.....	2.46	116.70	75.62	
White Bluffs' Road.....	1.61	118.31	74.01	2110 Right-hand road to Walla Walla.
Cottonwood Springs (head of Hawk Creek).....	5.12	123.43	68.89	2725 Store; water, wood and grass.
Spring and flat near head of Crab Creek.....	12.58	136.01	56.31	2725 Water, wood and grass.
Colville Road.....	8.8	144.81	47.51	2725 Blacksmith shop; wood, water and grass.
Deep Creek Falls (cross- ing).....	2.7	147.51	44.81	2750
SPOKANE FALLS.....	15.68	163.19	29.13	2150
Cowley & Ford's Bridge.....	16.48	179.67	12.65	2150 Store, &c.
FORT CŒUR D'ALENE ..	12.65	192.32	.....	2311 U. S. military station.

NOTE.—Camp Chelan abandoned as a military post in 1880; troops removed to Camp Spokane.

TABLE NO. XXXIX.

Fort Cœur d'Alene, I. T., to Helena, M. T., (via Fort Missoula, M. T.).

Compiled and adjusted by Lieut. T. W. Symons, Corps of Engineers, from report of Col. O. M. Poe, Corps of Engineers, accompanying General Sherman on his tour of inspection in 1877.

LOCALITY.	Distances—Miles.		Altitude	REMARKS.
	From Cœur d'Alene.	From Helena.		
FORT CŒUR D'ALENE.	318	2311		
Wolf Lodge Creek	11	307		
Cœur d'Alene Mission	18	29	289	
Mud Prairie	10	39	279	
Sherman's camp, September 9, 1877	12	51	267	
Sherman's camp, September 8, 1877	11	62	256	
Sohon's Pass	5	67	251	
Packer's Ranch	12	79	239	
Crow's Nest	5	84	234	
Ferry over Bitter Root River	20	104	214	
Halpine's Ranch	8	112	206	
Berry's Ranch	7	119	199	
Lessian's Ranch	5	124	194	
Spring	14	138	180	
Point of Rocks	6	144	174	
Shaeffer's Ranch (6-mile creek)	16	160	158	
Frenchtown	6	166	152	
Missoula	17	183	135	
FORT MISSOULA	4	187	131	
Missoula	4	191	127	
Big Blackfoot River	6	197	121	
Beaver dam (on Butte Creek)	18	215	103	
Whitesides	11	226	92	
New Chicago	14	240	78	
Bridge over Hell Gate Riv	8	248	70	
Cedar Hill	14	262	56	
Deer Lodge	11	273	45	
Dead Dog Creek	10	283	35	
Frenchwoman's Ranch	13	296	22	
HELENA, MT.	22	318		

Summit of Cœur d'Alene Mountains

The total distance is shortened 8 miles by not going to Fort Missoula, which lies four (4) miles from the road.

NOTE.—"The Mullan Road." A military telegraph line has been built along this road.

TABLE NO. XXX.

Camp Chelan to Ritzville, W. T., on N. P. R. R.

Road surveyed and marked by Lieut. T. W. Symons, Corps of Engineers, 1880—Odometer measurements.

LOCALITY.	Distances—Miles.		Altitude	REMARKS.		
	From Camp Chelan.	From Ritzville.				
CAMP CHELAN.....	.....	107.5	1100			
Columbia river crossing.....	1.5	1.5	106.0	825	Crossing in small boats.	
Myrtle spring.....	3.6	5.1	102.4	2050	Wood, water and grass.	
Moses' Coulee.....	20.8	25.9	81.6	2012	do	do
Grand Coulee.....	20.2	46.1	61.4	1815	do	do
Wilson creek.....	14.9	61.0	46.5	1800	do	do
Kenewaw run.....	7.1	68.1	39.4	1900	do	do
Howard spring (Marlin Hollow).....	5.0	73.1	34.4	1925	do	do
Lake creek crossing.....	4.9	78.0	29.5	1800	Bad camping place.	
Crab creek, Clover patch crossing.....	7.0	85.0	22.5	1550	Water and grass; no wood.	
Duke spring.....	5.7	90.7	16.8	1865	Wood, water and grass.	
RITZVILLE.....	16.8	107.5	...	1800	On line of N. P. R. R.	

TABLE NO. XXXVI.

Ainsworth to Camp Chelan, W. T., (via White Bluffs Landing.)

From odometer measurements by Lieut.-Col. H. C. Merriam, 2d Infantry, and Lieut. T. W. Symons, Corps of Engineers, 1879-80.

LOCALITY.	Distances—Miles.		Altitude	REMARKS.
	From Ainsworth	From Camp Chelan.		
AINSWORTH	156.9	350		Mouth of Snake river.
Mouth of Yakima river	9.0	147.9		
Splawn's corral	9.4	138.5		Water and wood all along the way. Grass in spring and early summer; in the late summer and fall there is none.
Kuntz' ranch	12.7	31.1	125.8	
Perkins' ranch	5.2	36.3	120.6	
White Bluffs landing	9.9	46.2	110.7	400
Lower ford of Crab creek	14.3	60.5	96.4	Wood; very bad water, poor feed.
Second ford of Crab creek	10.5	71.0	85.9	do do do
Forks of White Bluffs road to Spokane Falls	4.0	75.0	81.9	{ 26 miles to water, Black Rock spring.
Arm of Moses' lake	6.8	81.8	77.1	Water unfit for any use; no wood.
Rocky ford of Crab creek	12.3	94.1	62.8	Water fair; wood and grass scarce.
Topeta creek	11.5	105.6	51.3	Good wood, water and grass.
Wittmann spring	7.1	112.7	44.2	do do do
Moses' Coulee (Merriam spring)	10.1	122.8	34.1	do do do
Columbia river crossing	32.6	155.4	1.5	Opposite Lake Chelan.
LAKE CHELAN	1.5	156.9	1100	

NOTE.—Camp Chelan was abandoned as a military post in 1880.

TABLE NO. XXXII.

Camp Chelan to Camp Spokane, W. T., (via Cottonwood Springs).

From odometer measurements by Lieut.-Colonel H. C. Merriam, 2d Infantry, and Lieut. T. W. Symons, Corps of Engineers, in 1879-80.

LOCALITY.	Distances—Miles.		Altitude	REMARKS.
	From Camp Chelan.	From Camp Spokane.		
CAMP CHELAN.....	.....	143.43	1100	Abandoned as a military post in 1880.
Columbia river.....	1.5	1.5	825	Crossing by small boats.
Top of hill.....	5.5	7	136.43	3300
Eight-Mile springs.....	8.2	15.2	128.23	.....
Forks of road.....	8.5	23.7	179.73	.....
Head of Foster creek.....	13.5	37.2	106.23	1790
Cow spring.....	18.32	55.52	87.91	2300
Grand Coulee springs.....	9.86	65.38	78.05	1425
Morrel springs.....	6.97	72.35	71.08	.....
Orchard springs.....	10.33	82.68	60.75	2165
Condon's (Wild Goose Bill's).....	9.06	91.74	51.69	2110
Mosquito spring or Lone Star ranch.....	22.5	114.24	29.19	.....
Forks of road.....	2.46	116.70	26.73	.....
White Bluffs road.....	1.61	118.31	25.12	.....
Cottonwood springs (head of Hawk creek).....	5.12	123.43	20.00	2725
CAMP SPOKANE.....	20.00	143.43	.....	1615
				Wood, water and grass.
				Left fork goes to old winter camp, mouth of Foster creek.
				Wood, water and grass.
				do do do.
				do do do.
				do do do.
				Little wood and water; plenty grass.
				Wood, water and grass.
				Right-hand fork to Walla Walla.
				Wood, water and grass.
				Distance estimated.

NOTE.—The road via "Virginia Bill's" is 40 miles shorter. It will leave the above road about half way between Wild Goose Bill's and Lone Star ranch.

TABLE NO. XXXVII.

Ainsworth, to Camp Spokane, W. T., (via N. P. R. R. to Sprague).

Compiled by Lieut. T. W. Symons, Corps of Engineers.

LOCALITY.	Distances—Miles.			Altitude	Authority.	REMARKS.
	From Ainsworth.	From Camp Spokane.	From Ainsworth.			
AINSWORTH .....	.....	166.22	.....	350		
Summit Esquitzel and Providence Coulees	59	59	107.22	.....	R. R. meas	By rail.
Ritzville	26	85	81.22	1800	"	do.
Foot Colville lake	15	100	66.22	1910	"	do.
SPRAGUE	8	108	58.22	.....	"	{ do. to Spokane Falls, 42 miles.
Mud springs	7	115	51.22	.....	Odometer.	Wagon road.
Rock creek (east fork of Crab creek?)	3.22	118.22	48	.....	"	do. do.
North fork of Crab creek	10	128.22	38	.....	Estimated.	do. do.
Cold spring	10	138.22	28	.....	"	do. do.
Cottonwood spring	8	146.22	20	2725	"	do. do.
CAMP SPOKANE	20	166.22	.....	1615	"	do. do.

NOTE.—The distance from Sprague to Camp Spokane will be much shortened when a direct road is laid out joining the two points.

TABLE NO. XXXVIII.

Fort Colville to Camp Spokane, W. T.

Compiled by Lieut. T. W. Symons, Corps of Engineers.

LOCALITY.	Distances—Miles.			Altitude	Authority.	REMARKS.
	From Fort Colville.	From Camp Spokane.	From Fort Colville.			
FORT COLVILLE .....	.....	100.8	.....	2800		
Brown's ranch (Fool's Prairie)	25.0	25.0	75.8	.....	Odometer	
Sheep creek	14.2	39.2	61.6	.....	"
Haines' ranch	14.7	53.9	46.9	.....	"
Spokane river	6.9	60.8	40.0	.....	"	Bridge.
Cottonwood springs	20.0	80.8	20.0	2725	Estimated.	
CAMP SPOKANE	20.0	100.8	.....	1615	"	

NOTE.—The distance from Fort Colville to Camp Spokane by the Columbia River trail is about 80 miles.

TABLE NO. XXXV.

Roseburg, Oregon, to Redding, California.

From the time and distance table of the Oregon and California Stage Company. Daily Stage Line. Compiled by Lieut. T. W. Symons, Corps of Engineers.

LOCALITY.	Distances—Miles.		REMARKS.
	From Roseburg.	From Redding.	
ROSEBURG		275	
Oak Grove	14	14	261
Canyonville	13	27	248
Levens'	12	39	236
Grave creek	15	54	221
Grant's Pass	15	69	206
Rock Point	15	84	191
Jacksonville	14	98	177
Amerman's	10	108	167
Ashland	7	115	160
Casey's	7	122	153
Cole's	13	135	140
Klamath ferry, Cal.	11	146	129
Yreka	14	160	115
Starveout	12	172	103
Butteville	13	185	90
Strawberry valley	13	198	77
Soda Springs	8	206	69
Castle Rock	4	210	65
Southern's	11	221	54
Slate creek	10	231	44
Sacramento ferry	12	243	32
Allen's	10	253	22
Bass	10	263	12
REDDING	12	275	

{ Stage connections for Kerby, Waldo, and
{ Crescent City.

Stage leaves for Linkville and Klamath.

TABLE NO. XXXVI.

Roseburg to Fort Klamath, Oregon.

From distances given by Captain Sladen, Oregon and California Stage Company, Linkville Stage Company, P. O. Route Map, Captain Ferree, and measurements by Lieut. T. W. Symons, Corps of Engineers.

LOCALITY.	Distances—Miles.			REMARKS.
	From Roseburg.	From Fort Klamath.	From Fort Klamath.	
ROSEBURG . . . . .	...	214		
Round prairie	9	9	205	
Myrtle creek	9	18	196	Town.
North Canyonville	9	27	187	Town.
Galesville	14	41	173	Toll road. Stage station.
Leland	13	54	160	Grave creek. Stage station.
Lucky Queen	5	59	155	Jump-off-Joe creek.
Grant's Pass	10	69	145	Store, etc.
Woodville	10	79	135	do.
Rock Point	5	84	130	Town.
Willow springs	7	91	123	Store, etc.
Jacksonville	7	98	116	{ Town. Stage connections for Kerby, { Waldo, and Crescent City.
Phœnix	9	107	107	Town.
Ashland	8	115	99	{ Town. Leave overland stage of C. & O. { Stage Company, and take branch line for Linkville.
Soda springs	10	125	89	
Pioneer	14	139	75	
Mergenser	37	176	38	
Linkville	3	179	35	
Ferree's	12	191	23	
Klamath Agency	17	208	6	
FORT KLAMATH	6	214	...	U. S. military post.

NOTE.—Daily stage and mail over this route.

TABLE NO. XXXVII.

Prineville to Eugene City, Oregon.

Compiled by Lieut. T. W. Symons, Corps of Engineers, from P. O. Route Map.

LOCALITY.	Distances—Miles.		Altitude	REMARKS.
	From Prineville.	From Eugene City.		
PRINEVILLE.....	.....	145.5	2899	
Camp Polk.....	40	40	105.5	
McKinzie's bridge.....	50	90	55.5	2563
Gate City.....	21	111	34.5	
Leaburg.....	9.5	120.5	25.0	
Walterville.....	8	128.5	17.0	
Thurston.....	3	131.5	14.0	
Springfield.....	10	141.5	4.0	
EUGENE CITY.....	4	145.5	...	

NOTE.—Mail over this route three times a week.

TABLE NO. XXXVIII.

Jacksonville, Oregon, to Camp Gaston, California.

Estimated by Major H. R. Mizner, 12th Infantry, from Captain Lydecker's Tables, Headquarters Military Division of the Pacific, 1873.

LOCALITY.	Distances—Miles.		Altitude.	REMARKS.
	From Jacksonville.	From Camp Gaston.		
JACKSONVILLE, OREGON.....	.....	201	.....
Kerby.....	54	54	147	Stage road.
Waldo.....	12	66	135	do.
Crescent City, California.....	50	116	85	Toll road.
Mouth of Klamath river.....	25	141	60	By coast trail.
CAMP GASTON.....	60	201	397	No details of route furnished.

NOTE.—Mail twice a week from Jacksonville to Crescent City.

TABLE NO. XXXVI.

Port Townsend to Neah Bay.

Compiled from P. O. Route Map by Lieut. T. W. Symons, Corps of Engineers.

LOCALITY.	Distances—Miles.			REMARKS.
	From Port Townsend	100	From Neah Bay	
PORT TOWNSEND.....	.....	100	.....	By steamer.
New Dungeness.....	25	25	75	do.
Port Angeles.....	15	40	60	do.
Crescent Bay.....	20	60	40	do.
Pysh.....	20	80	20	do.
Hoko.....	8	88	12	do.
NEAH BAY.....	12	100	.....	do.

NOTE.—Mail over this route once a week.

TABLE NO. XL.

Seattle to Skagit Gold Mines.

Compiled from information gathered by Lieut. T. W. Symons, Corps of Engineers, 1880.

LOCALITY.	Distances—Miles.			REMARKS.
	From Seattle	From Skagit Gold Mines	.....
SEATTLE.....	.....	155	.....
Mukilteo.....	28	28	127	Steamer.
Tulalip.....	9	37	118	do.
Stanwood.....	15	52	703	do.
Skagit City.....	11	63	92	do.
Mount Vernon.....	4	67	88	do.
Sterling.....	10	77	78	Steamer or canoes.
Coal Mines.....	15	92	63	do do.
Baker river.....	14	106	49	do do.
Sauk river.....	8	114	41	do do.
Cascades river.....	8	122	33	do do.
Portage City.....	7	129	26	do do.
Goodell's.....	8	137	18	Trail.
GOLD MINES.....	18	155	.....	do.

NOTE.—At Sauk river a trail leaves for the Columbia via the Wenatche river, and at Cascades river for Lake Chelan, and the Columbia, via the Methow river. During high and medium water-stages, steamers can go about to Portage City. During low water they can go generally to Sterling. All traveling along the river is by water, as no roads or trails exist along the river where it can be navigated by canoes.

TABLE NO. XLII.

Port Townsend to Whatcom and Seemiahmoo.

Compiled from P. O. Route Map by Lieut. T. W. Symons, Corps of Engineers.

LOCALITY.	Distances—Miles.		REMARKS.
	From Port Townsend.	From Seemiahmoo	
POR T TOWNSEND	148	...	
San Juan	33	33	115
Lopez Island	8	41	107
Friday Harbor	5	46	102
Orcas Island	8	54	94
East Sound	11	65	83
Cypress	14	79	69
Gueme	9	88	60
Anacortes	6	94	54
Samish	7	101	47
WHATCOM	12	113	35
SEEMIAHMOO	35	148	...

NOTE.—Steamer and mail over this route once a week.

TABLE NO. XLII.

Olympia to Chehalis Point, W. T.

Compiled from P. O. Route Map by Lieut. T. W. Symons, Corps of Engineers.

LOCALITY.	Distances—Miles.		REMARKS.
	From Olympia.	From Chehalis Point.	
OLYMPIA .....	...	83	
Kamilch	18	18	65
Summit	9	27	56
Elma	8	35	48
Satsop	6	41	42
Montesano	6	47	36
Hoquiam	20	67	16
PATTERSON OR CHEHALIS POINT	16	83	...

NOTE.—Mail over this route once a week.

TABLE NO. XLIII.

Boise City, I. T. to Winnemucca, Neveda. (Owyhee Road).

Furnished by W. B. Morris, Supt. N. W. Stage Co. From Captain Sladen's Tables.

LOCALITY.	Distances—Miles.		Altitude	REMARKS.
	From Boise City.	From Winnemucca		
BOISE CITY, IDAHO.....	..	270	2815	
Ricord's.....	15	15	255	
Snake river.....	15	30	240	
Gardner's.....	15	45	225	
Babington's.....	6	51	219	
Silver City.....	9	60	210	
Wagontown.....	10	70	200	
Trout creek.....	8	78	192	
Co. ranch.....	13	91	179	
Inskipp's.....	12	103	167	
Sheep ranch.....	12	115	155	
Owyhee river.....	6	121	149	
Dry creek.....	13	134	136	
Rattlesnake.....	11	145	125	
Battle creek.....	11	156	114	
Summit.....	10	166	104	
Ten-Mile creek.....	16	182	88	
CAMP McDERMIT, NEV..	10	192	78	
Canyon creek.....	13	205	65	
Rebel creek.....	15	220	50	
Cane springs.....	14	234	36	
Paradise.....	14	248	22	
Toll House.....	10	258	12	
WINNEMUCCA.....	12	270	4355	

NOTE.—The above are the measurements of the Northwestern Stage Company. They do not agree with the estimates of Captain Downey in Table XLVI.

TABLE NO. XLIV.

Boise City to Fort Hall, I. T.

Estimated by Lieut. L. Hammond, 23d Infantry, from Captain Lydecker's Tables, Headquarters Military Division of the Pacific, 1873.

LOCALITY.	Distances—Miles.		Altitude	REMARKS.
	From Boise City.	From Fort Hall.		
BOISE CITY.....	.....	312	2812	
Black's station.....	18	18	294	.....
Indian creek.....	10	28	284	.....
Junction house.....	8	36	276	.....
Canyon creek.....	10	46	266	.....
Rattlesnake creek.....	12	58	254	.....
Cold spring.....	12	70	242	.....
King hill.....	12	82	230	.....
Clover spring.....	12	94	218	.....
Malade river.....	15	109	203	.....
Snake river.....	26	135	177	.....
Desert station.....	14	149	163	.....
Rock creek.....	14	163	149	.....
Marsh creek.....	18	181	131	.....
Goose creek.....	10	191	121	.....
Marsh lake.....	12	203	109	.....
Raft river.....	35	238	74	.....
Fall creek.....	12	250	62	.....
American falls.....	25	275	37	.....
Bannock creek.....	10	285	27	.....
Ross fork.....	15	300	12	.....
FORT HALL.....	12	312	4752	

NOTE.—Practicable for heavy teams from July 1st to December.

TABLE NO. XLV.

Boise City to Banner City, I. T.

From information furnished by Lieut. F. J. Patten, 21st Infantry.

LOCALITY.	Distances—Miles.		Altitude.	REMARKS.
	From Boise City.	From Banner City.		
BOISE CITY.....	.....	63	2812	
Idaho City.....	35	35	28	.....
BANNER CITY.....	28	63	.....
The Post Office Official Map gives the same dis- tances as follows:				
BOISE CITY.....	.....	44	.....
Idaho City.....	24	24	20	.....
BANNER CITY.....	20	44	.....

NOTE.—Stage road. Wagon road terminates at Banner City.

TABLE NO. XLVI.

Boise City, I. T., to Fort McDermit, Nevada.

Estimated by Captain G. M. Downey, 21st Infantry, from Captain Sladen's Tables.

LOCALITY.	Distances—Miles.		Altitude	REMARKS.
	From Boise City.	From Camp McDermit		
BOISE CITY, I. T.....	.....	191	2812	
Snake river crossing.....	30	30	161	.....
Gardner's ranch (Rey- nold's creek).....	15	45	146	.....
Booneville (Jordon creek).....	16	61	130	.....
Trout creek.....	15	76	115	.....
Inskipp's ranch (Cow creek, Oregon).....	20	96	95	.....
Owyhee ferry.....	24	120	71	.....
Rattlesnake creek.....	24	144	47	.....
Summit springs.....	21	165	26	.....
Ten-Mile creek.....	16	181	10	.....
CAMP McDERMIT, NEV.....	10	191	4700	Water good and abundant, ex- cept at Rattlesnake creek, where it is alkaline. Grass plenty. Sage brush fuel.

TABLE NO. XLVII.

Camp Harney, Oregon, to Boise City, I. T. (via Malheur Indian Agency and Farewell Bend, Snake River.)

From odometer measurements by Major R. H. Towler, Paymaster, U. S. A., and Captain Sladen's Tables, Headquarters Department of the Columbia, 1878.

LOCALITY.	Distances—Miles.			REMARKS.
	From Camp Harney.	From Boise City.	From Boise City.	
CAMP HARNEY, OREGON	.....	202.70	.....	Altitude 4850.
Cow creek.....	6.80	6.80	195.90	
Rock creek.....	5.50	12.30	190.40	Right-hand road to Winnemucca.
Pine creek.....	19.16	31.46	171.24	
Malheur river (middle fork).....	2.09	33.55	169.15	Road forks just beyond, the left-hand fork leading to crossing of the north fork, and Canyon City and Boise Stage Road.
Malheur Indian Agency.....	16.39	49.04	152.76	
Parrish's spring.....	5.12	55.06	147.64	
Camp Misfortune.....	6.24	61.30	141.40	Road bad for ten miles.
Hole in the Ground.....	13.42	74.72	127.98	Ranch; excellent camping ground.
Junction with Canyon City and Boise Stage Road.....	7.07	81.79	120.91	
Junction with road to El Dorado.....	7.46	89.25	113.45	
McDowell's ranch.....	13.80	103.05	99.65	Road forks; left-hand road to Boise via Fare- well Bend; right-hand to Boise via Stone House.
Farewell Bend (Snake R).....	19.00	122.05	80.65	Washoe ferry; crossing of Umatilla and Kel- ton Stage Road.
Three Brothers.....	18.13	140.18	62.52	
Emory's ranch.....	14.12	154.30	48.40	Near the crossing of Payette river.
Willow creek.....	28.40	182.70	20.00	Stage station.
BOISE CITY, I. T.....	20.00	202.70	.....	Altitude 2812.

NOTE.—Camp Harney abandoned as a military post in compliance with Special Order No. 77, dated Headquarters Department of the Columbia, May 5, 1880. See following table.

TABLE NO. XLVIII.

Camp Harney, Oregon, to Boise City, I. T. (via Canyon City, Stone House and Old Fort Boise Ferry.)

Estimated by Captain G. M. Downey, 21st Infantry, from Captain Sladen's Tables, Headquarters Department of the Columbia, 1878.

LOCALITY.	Distances—Miles.		REMARKS.
	From Camp Harney.	From Boise City.	
CAMP HARNEY, OREGON	.....	248	Altitude 4850.
Rubies' saw-mill.....	12	12	236
Mountain springs.....	16	28	220
Soda springs.....	15	43	205
Canyon City.....	28	71	177
Warm springs.....	24	95	153
Summit prairie.....	13	108	140
Little Malheur river.....	25	113	115
Junction with Malheur Indian Agency road...	23	156	92
McDowell's ranch.....	22	178	70
Malheur river.....	17	185	63
Old Fort Boise ferry.....	16	201	47
Middleton.....	25	226	22
BOISE CITY, I. T.....	22	248	Altitude 2812.

NOTE.—Road good, and is practicable for wagons from June 1st to December 1st. Wood, water, and grass all the way. Camp Harney abandoned as a military post in compliance with Special Order No. 77, dated Headquarters Department of the Columbia, May 5, 1880. See preceding table.

TABLE NO. XLIX.

Camp Harney, Oregon, to Boise City, I. T.

From odometer measurements by Major R. H. Towler, Paymaster, U. S. A., and Captain Sladen's Tables, Headquarters Department of the Columbia, 1878.

LOCALITY.	Distances—Miles.		Altitude	REMARKS.
	From Camp Harney.	From Boise City.		
CAMP HARNEY, OREGON	183.05	183.05	4850	
McDowell's ranch	103.05	80	.....
Stone House (Malheur R)	17	120.05	63	
Old Fort Boise ferry	16	136.05	47	
Middleton	25	161.05	22	
BOISE CITY, IDAHO	22	183.05	2812	Snake river.

NOTE.—Wood, water, and grass all the way. See Table XLVIII, which does not agree with this, but is believed to be more correct. Camp Harney abandoned as a military post in 1880.

TABLE NO. L.

Camp Harney to Camp Warner, Oregon.

Estimated by Captain G. M. Randall, 23d Infantry.

LOCALITY.	Distances—Miles.		Altitude.	REMARKS.
	From Camp Harney.	From Camp Warner.		
CAMP HARNEY, OREGON	145	4850		
Fork of Silvie's river	15	130	.....	Water, wood, and grass plenty.
Warm springs	20	45	100	do do do.
Buzzard canyon	15	60	85	Water, wool, and grass scarce.
Mule spring	28	88	57	Wood and grass plenty; water scarce
Warner lake	12	100	45	Wood and grass scarce; water bad.
Lost camp	20	120	25	Wood and grass scarce; water plenty.
Jones' ranch	10	130	15	Wood, water, and grass plenty.
CAMP WARNER	15	145	5730	

NOTE.—Road practicable from June 1st to January 1st. Camp Warner was abandoned as a military post in 1875, and Camp Harney in 1880.

TABLE NO. LI.
Camp Harney, Oregon, to Camp McDermit, Nevada.

From Captain Lydecker's Tables, Headquarters Military Division of the Pacific, 1873.

LOCALITY.	Distances—Miles.		Authority.	REMARKS.
	From Camp Harney.	From Camp McDermit.		
CAMP HARNEY, OREGON	.....	177.67		Altitude 4850.
Crow camp	18	159.67	Estimated.	
Crow (Crane?) creek	12	30	147.67	"
South fork Malheur river	5	35	142.67	"
Branch of Malheur river	15	50	127.67	"
Summit springs	11	61	116.67	"
Willow's First creek	20	81	96.67	"
Third creek	4	85	92.67	"
Alvord creek	20	105	72.67	"
Camp C. F. Smith	25	130	47.67	"
Forks of road	4.25	134.25	43.42	Odometer
McElroy creek	6.42	140.67	37.00	"
Wood ranch	12	152.67	25.00	"
Ten-mile creek	15	167.67	10.00	"
CAMP McDERMIT, NEV.	10	177.67	.....	Altitude 4700.

NOTE.—Of the above distances those from Camp Harney to Camp C. F. Smith are estimated by Captain G. M. Randall, 23d Infantry, and those from Camp C. F. Smith to Camp McDermit are measured by Major H. M. Robert, Corps of Engineers. Camp C. F. Smith was abandoned as a military post in 1869, and Camp Harney in 1880.

TABLE NO. LII.
Camp Harney, Oregon, to Camp Three Forks, Idaho.

Estimated by Captain G. M. Randall, 23d Infantry.

LOCALITY.	Distances—Miles.		REMARKS.
	From Camp Harney.	From Camp Three Forks.	
CAMP HARNEY, OREGON	.....	248	Altitude 4850.
Camp C. F. Smith	130	118	
Crooked creek	20	150	98
Owyhee ferry	30	180	68
Inskeep's ranch	24	204	44
Farnham's ranch	28	232	16
CAMP THREE FORKS, I. T.	16	248	

NOTE.—Road practicable for wagons from June 1st to February 1st. Camp C. F. Smith was abandoned as a military post in 1869, Camp Three Forks in 1870, and Camp Harney in 1880.

TABLE NO. LIII.

Camp Bidwell, California, to Camp Harney, Oregon.

Estimated by Captain Max Wesendorff, 1st Cavalry, from Captain Sladen's Tables, Headquarters Department of the Columbia, 1878.

LOCALITY.	Distances—Miles.			REMARKS.
	From Camp Bidwell.	From Camp Bidwell.	From Camp Harney.	
CAMP BIDWELL, CAL.	...	186	...	Altitude 4647.
Twenty-mile creek, Or.	20	20	166	Road hilly and mountainous; grass excellent and abundant; water plentiful; sage brush fuel; no wood.
Deep creek	14	34	152	Fair level road, somewhat heavy after recent rains; good grass and water; sage brush fuel; no wood.
Jones' ranch	14	48	138	Altitude 4466. Good road skirting lower Warner lake (slightly saline); excellent grass, and in abundance; good water; little wood; sage brush fuel.
Mule springs	45	93	93	Altitude 4738. Good level road, although somewhat heavy in places; 15 miles from Jones' ranch and one mile to east of main road is a small lake, strongly saline; animals use it freely, however; grass abundant, of the kind known as bunch; water good; sage brush fuel.
Buzzard canyon	30	123	63	Some heavy hills and deep and rugged canyons on this road; water plentiful; good grass in canyon; sage brush fuel.
Silvie's river	45	168	18	Good road, though somewhat heavy in places. 15 miles from Buzzard canyon warm springs are reached; some of these waters, as the name indicates, are warm and offensive to animals, others contain excellent water, and in abundance; good grass. About 2 miles from Warm springs, after crossing slough, a road called Sage-hen road leads to the left; this road is used by heavily laden teams in winter. (though longer by 20 miles than the main road) on account of poor crossing at Silvie's river and the heaviness of road; good grass and water; sage brush fuel; little wood.
CAMP HARNEY, OREGON	18	186	...	Altitude 4850.

NOTE.—See Table LIV for itinerary of this route adapted to marches of foot troops. Camp Harney was abandoned as a military post in 1880.

TABLE NO. LIV.

Camp Harney, Oregon, to Camp Bidwell, California.

Estimated by Captain Max Wesendorff, 1st Cavalry, from Captain Sladen's Tables, Headquarters Department of the Columbia, 1878.

LOCALITY.	Distances—Miles.		REMARKS.
	From Camp Harney.	From Camp Bidwell.	
CAMP HARNEY, OREGON	181		Altitude 4850.
Silvie's river.....	16	165	Good level road; heavy in rainy seasons; water and grass good; willow fuel.
Warm springs.....	25	41	Good road; heavy in places; willow fuel; water and grass good.
Buzzard canyon.....	18	59	Heavy hills on this road; water and grass good; sage brush fuel.
Mule springs.....	25	84	Road good; some hills; good grass and water; sage brush fuel.
Water holes.....	22	106	Good road; bad water; good grass; sage brush fuel.
Jones' ranch.....	25	131	Altitude 4466. Good level road; water and grass good; willow fuel.
Deep creek.....	15	146	Good road; willow fuel; water and grass good.
Twenty-mile creek.....	15	161	Road hilly; willow fuel; water and grass good.
Twelve-mile creek.....	8	169	Road hilly; good water and grass; willow fuel.
CAMP BIDWELL, CAL.	12	181	Altitude 4647. Good road.

TABLE NO. LV.

Camp Warner, Oregon, to Camp Bidwell, California.

Measured with odometer by Captain H. M. Roberts, Corps of Engineers, from Captain Sladen's Tables, Headquarters Department of the Columbia, 1878.

LOCALITY.	Distances—Miles.			REMARKS.
	From Camp Warner.	From Camp Bidwell.	From Camp Bidwell.	
CAMP WARNER, OREGON.	.....	66.15	.....	Altitude 5730.3 Abandoned as a military post in 1874.
Honey creek	8.25	8.25	57.90	
Eschenberg's spring	11.25	19.50	46.65	
Warm spring	10.50	30.00	36.15	
Sherman's bridge (Deep creek)	3.70	33.70	32.45	
Creek	10.75	44.45	21.70	
Creek	5.50	49.95	16.20	
Creek	2.20	52.15	14.00	
Summit of hill	4.50	56.65	9.50	
Annie lake	5.00	61.65	4.50	
CAMP BIDWELL, CAL.	4.50	66.15	.....	Altitude 4647.

NOTE.—On this road wagons can come to about 20 miles from Bidwell, between the middle of November and the 1st of May; pack trains must be used the rest of the way. The summer road is about 45 miles long, and leaves the winter road, (*i. e.*, going north) about 18 miles from Camp Bidwell.

TABLE NO. LVI.

Fort Bidwell, California, to Reno, Nevada.

From odometer measurements by Lieut. T. W. Symons, Corps of Engineers, 1877-8.

LOCALITY.	Distances—Miles.		Altitude	REMARKS.
	From Fort Bidwell	From Reno		
FORT BIDWELL, CAL.	190.42	4647		Two company post. Town.
Lake city	16.32	174.10	4623	Small town.
Cedarville	8.65	21.97	4645	do.
Eagleville	15.90	40.87	4635	Post office on Eagle creek.
Bare's ranch	11.72	52.59	4679	South end of Surprise valley; on Silver creek.
Forks of road	8.42	61.01	129.41	Road to Tuledad and Cold Spring.
Clark's ranch, Nevada	2.87	63.88	126.54	Good water and feed.
Spring	16.04	79.92	110.50	Water and grass.
Buffalo station	13.06	92.98	97.44	do do.
Buffalo Salt works (Murphy's)	14.73	107.71	82.71	Very bad water; to Deep hole 22.94 miles.
Sheep head	7.56	115.27	75.15	Good water; forage can be bought.
Fish spring	27.55	142.82	47.60	do do do.
Newcomb's ranch	9.98	152.80	37.62	do do do.
Giles & Bickford's ranch	2.15	154.95	37.47	Good water.
Winter's ranch	.80	155.75	34.67	Good water and grass.
Tule Frank's ranch	1.57	157.33	33.10	Good water; forage can be bought.
Chapman's ranch	.70	158.02	32.40	do do do.
Warm spring	8.68	166.70	23.72	Good water and grass.
Junction House	6.03	172.73	17.68	Good water; forage can be bought.
Deep wells	4.92	177.65	12.77	do do do.
Forks of road near quartz mill	10.84	188.49	1.93	North edge Truckee meadows.
RENO, NEVADA	1.93	190.42	4484.2	Station on C. P. and V. & T. R. R.

NOTE.—The distance from Deep wells to Reno here given is via the new road. By the road traveled generally, the distance is 2 63-100ths miles greater. Stage over this route three times a week.

TABLE NO. LVII.

Fort Klamath, Oregon, to Fort Bidwell, California.

Compiled and adjusted by Lieut. T. W. Symons, Corps of Engineers, from odometer measurements by Lieuts. G. M. Wheeler and T. W. Symons, Corps of Engineers, and Lieut. W. Wittich, 21st Infantry, 1877-8.

LOCALITY.	Distances—Miles.		Altitude.	REMARKS.
	From Fort Klamath.	From Fort Bidwell.		
FORT KLAMATH, OREGON	.....	156.87	4108.4	
Klamath Indian Agency	6.10	6.10	150.87	
Chilquin bridge	4.10	10.2	146.77	
True Shout spring	11.02	21.22	135.65	
Yainax bridge	17.72	38.94	117.93	
Yainax Indian Agency	5.32	44.26	112.61	
Whisky creek bridge	6.10	50.36	106.51	
Honey creek bridge	4.70	55.06	101.81	
Sprague river P. O.	16.20	71.26	85.61	
Quartz valley creek	11.10	82.36	74.51	
Lofton's ranch	12.20	94.56	62.31	
Rocky branch	8.10	102.66	54.21	
LAKEVIEW	14.51	117.17	39.70	4851
Hot Springs P. O.	5.86	123.03	33.84	
Willow ranch or Snider's store	17.30	140.33	16.54	
Lassen's pass (Summit)	9.87	150.20	6.67	6190
FORT BIDWELL, CAL.	6.67	156.87	4647	

NOTE.—From Lakeview a road has been built across the Warner mountains to Fort Bidwell, which is shorter and better than the one via Lassen's pass, saving 9.7 miles. See Table XIX.

Road practicable from May 1 to December 1. (Wittich).

TABLE NO. LVIII.

Fort Klamath to Camp Warner, Oregon.

Compiled and adjusted by Lieut. T. W. Symons, Corps of Engineers, from odometer measurements by Lieuts. G. M. Wheeler and T. W. Symons, Corps of Engineers, and Lieut. W. Wittich, 21st Infantry, 1877-8, and from the table prepared by Lieut. F. K. Ward, 1st Cavalry, in Captain Sladen's list of distances.

LOCALITY.	Distances—Miles.		Altitude.	Authority.	REMARKS.
	From Fort Klamath.	From Camp Warner.			
FORT KLAMATH, OREGON	.....	145.22	4108.4		
Klamath Indian Agency	6.10	6.10	139.12	.....
Chilquin bridge	4.10	10.2	129.2	.....	Over Williamson river
Mammoth spring	7.11	17.31	127.91	.....	Wood, water, and grass plenty.
Junction with Eugene City road	13.13	30.44	114.78	.....
Yainax or Sprague river bridge	8.12	38.56	106.66	.....
Yainax Indian Agency	5.32	43.88	101.34	.....
Whisky creek	3.00	46.88	98.34	.....	Water, grass, and sage brush plenty.
Whistler's camp	6.17	53.05	92.17	.....
Prine's ranch	7.17	60.22	85.00	.....	Water and grass plenty.
Big Cottonwood creek	12.00	72.22	73	.....	Water and wood plenty; no grass.
Round Grove	3.00	75.22	70	.....	Water, wood, and grass plenty.
Quartz valley	5.00	80.22	65	.....
Head of Drew's valley	7.00	87.22	58	.....
Mud creek	13.00	100.22	45	.....	Water and grass; no wood.
Rigg's ranch	10.00	110.22	35	.....
Mountain canyon	5.00	115.22	30	.....
Camas prairie	12.00	127.22	18	.....
Twelve-mile creek	6.00	133.22	12	.....	Wood, water and grass plenty.
CAMP WARNER, OREGON	12.00	145.22	5730	.....

NOTE.—Road practicable for heavy wagons from June 1st to December 1st; closed the remainder of the year by snow and high water. From Rigg's ranch it is only 18 miles to Camp Warner by a trail, which is very rough, but can be traveled by pack train during the summer. (Lieut. Ward).

TABLE NO. LIX.

Camp Warner, Oregon, to Camp McDermit, Nevada.

From Captain Lydecker's Tables, Headquarters Military Division of the Pacific, 1873.

LOCALITY.	Distances—Miles.		Altitude	Authority.	REMARKS.
	From Camp Warner.	From Camp McDermit.			
CAMP WARNER, OREGON	185.67	5730			
Honey lake (Isch's ranch)	15	170.67	4466	Estimated.	
Warner lake	12	158.67	4460	"	
Old Camp Warner	10	148.67	.....	"
Beattie's Butte	24	61	124.67	.....
Water holes	29	99	95.67	.....
Skull creek flat	6	96	89.67	.....
Wild Horse creek	18	114	71.67	.....
Camp C. F. Smith	24	138	47.67	.....
Forks of road	4.25	142.25	43.42	.....
McElroy creek	6.42	148.67	37.00	.....
Wood ranch	12.0	160.67	25.0	.....
Ten-mile creek	15.0	175.67	10.0	.....
CAMP McDERMIT, NEV.	10	185.67	4700	"	

NOTE.—The distances from Camp Warner to Camp C. F. Smith are estimated by Captain H. Wagner, 1st Cavalry; those from Camp C. F. Smith to Camp McDermit were measured by Major Henry M. Robert, Corps of Engineers.

TABLE NO. LX.

Camp Three Forks, I. T., to Camp McDermit, Nevada.

Estimated by Captain H. Wagner, 1st Cavalry.

LOCALITY.	Distances—Miles.		Altitude.	REMARKS.
	From Camp Three Forks	From Camp McDermit.		
CAMP THREE FORKS, I. T.				
Hill's ranch.....	...	139		
21	21	118		
Ranch.....	9	30	109	
Inskip's ranch.....	14	44	95	
Sheep ranch.....	18	62	77	
Owyhee ferry.....	6	68	71	
Dry creek.....	13	81	58	
Rattlesnake creek.....	11	92	47	
Battle creek.....	11	103	56	
Summit station.....	10	113	26	
Ten-mile creek.....	16	129	10	
CAMP McDERMIT, NEV.	10	139	4700	

NOTE.—A more direct road, a little to the eastward of the above, crosses the Owyhee a little above the forks, and is practicable for lightly-laden wagons during summer and fall. Water, on this road, may be found 16 miles from Camp McDermit, at Antelope creek, 25 miles beyond, and then at Owyhee, which is about 22 miles from Camp Three Forks. Camp Three Forks was abandoned as a military post in 1870.

TABLE NO. LXI.

Canyon City to Baker City, Oregon.

Compiled from P. O. Route Map by Lieut. T. W. Symons, Corps of Engineers.

LOCALITY.	Distances—Miles.		REMARKS.
	From Canyon City	From Baker City.	
CANYON CITY, OREGON.....	...	69	
Prairie City.....	14	14	55
Penola.....	16	30	39
Sumter.....	9	39	30
Auburn.....	18	57	12
BAKER CITY.....	12	69	

NOTE.—Daily mail over this route.

TABLE NO. LXII.

Canyon City to Pendleton, Oregon.

Compiled from P. O. Route Map by Lieut. T. W. Symons, Corps of Engineers.

LOCALITY.	Distances—Miles.			REMARKS.
		From Canyon City	From Pendleton.	
CANYON CITY, OREGON		144		
Prairie City	14	14	130	
Robinsonville	27	41	103	
Granite	12	53	91	
Starkey	40	93	51	
Pilot Rock	35	128	16	
PENDLETON	16	144	.....

NOTE.—Mail over this route once a week.

TABLE NO. LXIII.

Alturas, (Dorris' Bridge) California, to Warner Valley, Oregon. (Jones' Ranch)—via Lakeview and Warner Canyon.

From odometer measurements by Lieut. T. W. Symons, Corps of Engineers, 1877.

LOCALITY.	Distances—Miles.			Altitude.	REMARKS.
		From Alturas.	From Jones ranch.		
ALTURAS . . . . .	.....	100.35		4365	County seat of Modoc county.
Cedarville road junction	6.63	6.63	93.72	.....
Lake City road junction	11.29	17.92	82.43	.....
Lassen's creek	13.78	31.70	68.65	.....
Willow ranch, or Snider's store	3.14	34.84	65.51	.....
Boundary line of California and Oregon	7.78	42.62	57.73	.....
Cogswell's creek	6.25	48.87	51.48	.....
LAKEVIEW	9.20	58.07	42.28	4851	County seat of Lake county.
Head of Camas prairie	10.01	68.08	32.27	.....
Cottage springs	15.62	83.70	16.65	.....
Jones' ranch, Warner Val.	16.65	100.35	.....	4467	

NOTE.—Good water, wood and feed all along the route.

TABLE NO. LXIV.

Ainsworth to Spokane Falls, W. T.—via N. P. R. R.

Furnished by H. M. McCartney, Engineer N. P. R. R.

LOCALITY.	Distances—Miles.			REMARKS.
		From Ainsworth.	From Spoo- kane Falls.	
AINSWORTH .....	.....		150	
Eagle Rock well, No. 4	40	40	110	
Summit Esquaitzel and Providence Coulees	19	59	91	
Ritzville	26	85	65	
Foot Big lake	15	100	50	
SPRAGUE	8	108	42	
Cheney	27	135	15	
SPOKANE FALLS	15	150	.....

NOTE.—Until completion of railroad, stages will leave end of track and make through connection.

TABLE NO. LXV.

Spokane Falls to Fort Colville, W. T.

Compiled by Lieut. T. W. Symons, Corps of Engineers.

LOCALITY.	Distances—Miles.			REMARKS.
		From Spoo- kane Falls.	From Fort Colville.	
SPOKANE FALLS, W. T. ....	.....	96.48		
Deep creek falls	15.68	15.68	80.80	Measured.
Spokane river	20	35.68	60.80	Estimated.
Haines' ranch	6.90	42.58	53.90	Measured.
Sheep creek	14.7	57.28	39.20	do.
Brown's ranch, (Fool's prairie)	14.2	71.48	25.00	do.
FORT COLVILLE, W. T.	25	96.48	.....	do.

TABLE NO. LXVI.

Portland, Oregon, to Walla Walla, W. T.—via Oregon Railway and Navigation Company's Boats and Trains.

Compiled by Lieut. T. W. Symons, Corps of Engineers, from data furnished by O. R. & N. Co.

LOCALITY.	Distances—Miles.			REMARKS.
	From Portland.	From Walla Walla.	From Walla Walla.	
PORLAND, OREGON . . . . .	.....	268		
Vancouver	18	18	250	Steamer.
Lower Cascades	45	63	205	do.
Upper Cascades	6	69	199	Railroad.
Hood river	18	87	181	Steamer.
Klickitat	13	100	168	do.
THE DALLES	10	110	158	do.
Celilo	14	124	144	Railroad.
Des Chutes	4	128	140	do.
Grant's	6	134	134	do.
John Day's	10	144	124	do.
Quinn's	7	151	117	do.
Blalock's	6	157	111	do.
Lang's	5	162	106	do.
Willow's	13	175	93	do.
UMATILLA	34	209	59	do.
Cold springs	9	218	59	do.
Fordyce	6	224	44	do.
Wallula Junction	12	236	32	do.
Cumming's	4	240	28	do.
Touchet	12	252	16	do.
Frenchtown	8	260	8	do.
Whitman Junction	3	263	5	Blue Mountain extension: to State line 3 miles. to Milton 4 7 miles. To Blue Mountain 7 14 miles. Railroad.
WALLA WALLA, W. T.	5	268	.....





***Distances from U. S. Indian Agencies to nearest
Towns or Cities.***

The following distances are furnished by the Indian Agents of the respective Reservations, whose names are given.

Grand Ronde Agency, Oregon—P. B. Sinnot, Agent.

FROM AGENCY.	MILES.	
To Salem, Oregon	38	Estimated.
To St. Joseph, Oregon	31	do.
To Dayton, Oregon	32½	do.

Klamath Agency, Oregon.—L. S. Dyer, Agent.

FROM AGENCY.	MILES.	
To Linkville, Oregon	29	Measured.
To Fort Klamath, Oregon	6	do

Malheur Agency, Oregon.—W. V. Rinehart, Agent.

FROM AGENCY.	MILES.	
To Canyon City, Oregon	78	

Neah Bay Agency, W. T.—C. A. Huntington, Agent.

FROM AGENCY.	MILES.	
To Port Townsend, W. T.	100	By water.

Puyallup, Nesqually, and Chehalis Agency, W. T.—R. H. Milroy, Agent.

FROM AGENCY.	MILES.	
Puyallup to Tacoma, W. T.	2	By water.
	3	By road.
Muckleshot to Tacoma	20	
Nesqually to Yelm Station	5	N. P. R. R.
Chehalis to Tenino	14	do.
Squaksin to Olympia, W. T.	9	

Quinault Agency, W. T.—G. A. Henry, Agent.

TO ASTORIA, OREGON.	MILES.	MILES.	
To Chehalis Point, W. T.	36	36	Estimated.
To Johnson's Landing (Shoalwater Bay)	14	50	do.
To Oysterville	20	70	do.
To Unity	25	95	do.
To Astoria, Oregon	15	110	do.
TO OLYMPIA, W. T.			
To Chehalis Point	36	36	do.
To Montisano	40	76	do.
To Olympia	60	136	do.

Indian Agencies.—Continued.

Siletz Agency, Oregon.—William Bagley, Agent.

FROM AGENCY.	MILES.	
To Albany, Oregon	72	Estimated.

Skokomish Agency, W. T.—Edwin Eells, Agent.

TO PORT TOWNSEND, W. T.	MILES.	MILES.	
To Seabeck	29.7	29.7	
To Port Gamble	19.0	48.7	
To Port Ludlow	8.7	57.4	
To Port Townsend	17.0	74.4	
TO OLYMPIA, W. T.			
To Olympia		30	By land.
To Oakland	10	10	do.
To Olympia	20	30	By water.

NOTE.—The distances from Agency to Port Townsend are given by Captain J. S. Lawson, United States Coast Survey.

Umatilla Agency, Oregon.—N. A. Connoyer, Agent.

FROM AGENCY.	MILES.	
To Pendleton, Oregon	{ 4 5	By trail. Estimated. By stage road. Estimated.

Warm Spring Agency.—John Smith, Agent.

FROM AGENCY.	MILES.	
To The Dalles	74.25	Measured.

Yakima Agency, W. T.—James H. Wilber, Agent

FROM AGENCY.	MILES.	
To The Dalles, Oregon	65	
To Umatilla	60 90	By direct road. By mail route.



MAP OF THE DEPARTMENT OF THE COLUMBIA

SHOWING ROUTES OF TRAVEL HEREWITH PUBLISHED.



JANUARY 1, 1881.

COMPILED BY THOMAS W. SYMONS, CORPS OF ENGINEERS.
CHIEF ENGINEER, DEPT. OF THE COLUMBIA.

SCALE 50 MILES TO ONE INCH.

